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The Pennsylvania

Horticultural Society

National
Flower Show
PHILADELPHIA
MARCH 25TH TO
APRIL 2ND 1916
Convention Hall
Broad & Allegheny Ave.
Souvenir Program
Ten
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Saint Paul, Minn. September 2nd, 1915.

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FOURTH NATIONAL

FLOWER SHOW

of the

SOCIETY *of* AMERICAN FLORISTS *and* ORNAMENTAL HORTICULTURISTS

Incorporated by Act of Congress, March 4, 1901

Co-operating with

The Pennsylvania Horticultural Society
The American Rose Society
The American Carnation Society
Florists' Club of Philadelphia
American Sweet Pea Society
American Gladiolus Society
National Association of Gardeners
American Dahlia Society
Chrysanthemum Society of America
Florists' Telegraph Delivery

CONVENTION HALL

BROAD STREET AND ALLEGHENY AVENUE, PHILADELPHIA

MARCH 25 TO APRIL 2

1916

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EVOLUTION OF FLORICULTURE IN AMERICA

THE grand array of Nature's finest products that will be on exhibition at Convention Hall from March 25th to April 2nd will give flower lovers the opportunity of seeing the very latest development of plant life.

When the Pilgrim Fathers landed on the bleak, barren shores of New England they found very little in the way of native flowers.

They had brought with them a few seeds of Dianthus and other common garden flowers and when these seeds had produced bloom the Pilgrims gazed upon the entire cultivated floral wealth of America.

Among the earliest records of the cultivation of flowers in America, are the accounts of the voyages made in 1638 and 1663 by John Josselyn.

In these accounts Mr. Josselyn made special mention of the successful cultivation in America of Hollyhocks, Gilly Flowers, Sweet Briars and English Roses.

From this humble beginning, Floriculture and Ornamental Horticulture have made most marvelous strides, and now in 1916 the United States far surpasses any other country in the total production of glass-grown flowers.

This rapid growth has so increased the supply of Decorative Plants, such as Palms, Ferns, etc., that the best of them are within the reach of people of moderate means.

This rapid growth could not have been possible without the stimulus and organized work of Horticultural Societies.

Such organizations are now doing good work in most of the large cities and the smaller suburban towns. The greatest value of these organizations is the interest which they establish in Flowers and Ornamental Plants, and the spreading broadcast of knowledge of new varieties and latest cultural methods.

The oldest existing Society in the United States is the Pennsylvania Horticultural Society which was organized in 1827, and has included in its membership, from the very beginning, many of our foremost citizens. It is taking on new vigor and is adding many to its membership. It is working in conjunction with the S. A. F. O. H. and other National Horticultural organizations to make the Fourth National Flower Show the greatest Floral Exhibition ever staged in this country.

The first greenhouse in this country was built in Boston about the beginning of the eighteenth century, and in comparison with the magnificent steel and concrete constructions of to-day, with their abundance of light and superb heating systems, this original greenhouse was a very crude affair.

The greenhouses now built by the largest firms engaged in that business are in points of stability, beauty and adaption to purpose of growing flowers and plants, superior, in a marked degree, to anything of the kind in any other country.

In America we have in Winter the finest Roses, Carnations, Sweet Peas, and other popular flowers because of the superior construction of the houses and the abundant sunshine, which by the way is lacking on the Continent of Europe.

A most comprehensive idea of the advance made in this great business may be obtained by visiting the great Show to be held in Philadelphia, March 25th to April 2nd.

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The Thirty-second Annual Meeting of the Society of American Florists and Ornamental Horticulturists will be held at Houston, Texas, August 15, 16, 17, 1916.

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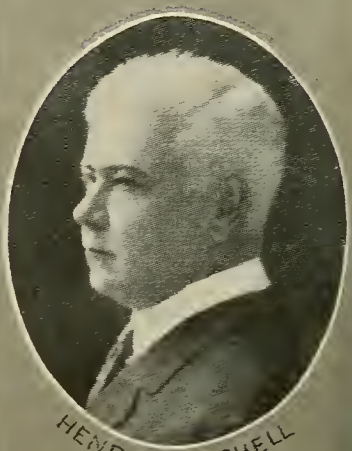

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SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

ITS ORGANIZATION

The Society of American Florists was born at Chicago, Ill., on June 19, 1884.

Previous to this time there had been no organization of any kind among the florists and gardeners of the country, although many of them were identified with the various horticultural societies and a few were members of the Nurserymen's Association. To a few far-seeing individuals it seemed that the florists were numerous enough and their business strong enough to maintain a separate national organization of their own. So in response to a call, about thirty or forty gentlemen assembled in Chicago on the 19th of June, 1884, and there laid the foundations of the Society of American Florists. One of the objects sought to be accomplished by organization was some plan for insurance of glass houses against injury by hail; indeed, it is doubtful if the Society had materialized for many years had it not been for this impetus. At the Chicago meeting a preliminary organization was effected and an executive committee met at Pittsburgh, Pa., in February, 1885, where the program and other arrangements were prepared for the first annual convention to be held in Cincinnati, O., in the following August.

The Society was incorporated by special act of Congress, March 4, 1901.

LADIES' SOCIETY OF AMERICAN FLORISTS

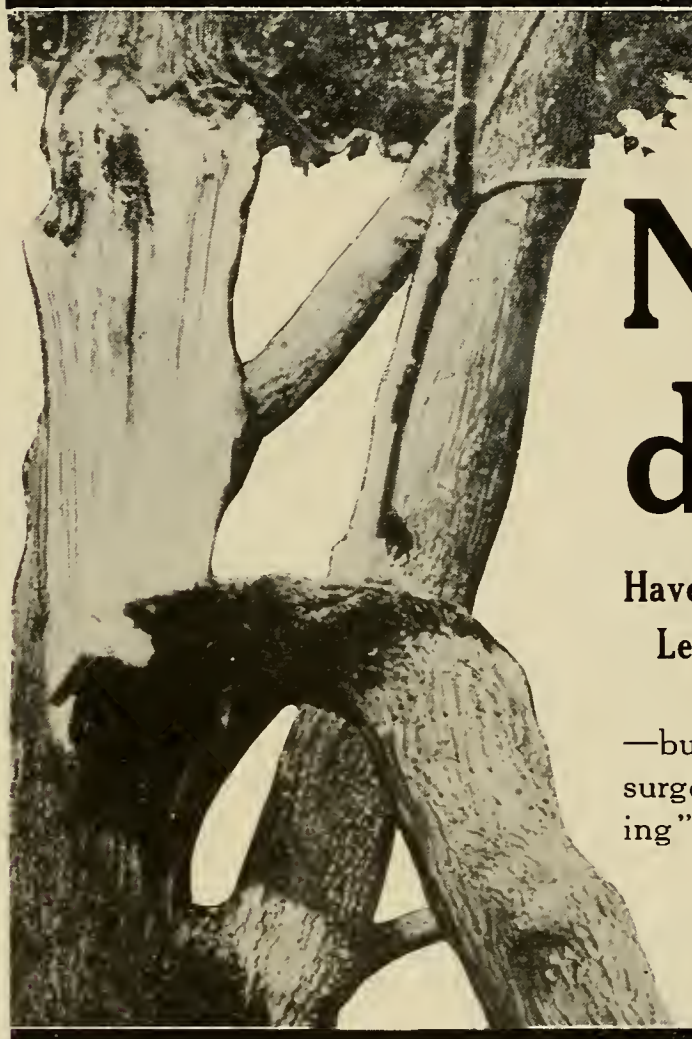
The Ladies' Society of American Florists was organized 1907 at Philadelphia, Pa., with a membership of 139. Since then its growth has been steady, now numbering from 250 to 275. Its object is to promote sociability among the ladies attending the S. A. F. and O. H. conventions. It has proved a benefit to its own members, and a valuable asset to the main society. Officers consist of president, two vice-presidents, secretary, treasurer, and a board of six (6) directors.

CHRYSANTHEMUM SOCIETY OF AMERICA

The Chrysanthemum Society of America was organized at Buffalo, N. Y., in 1890, with the following officers: *President*, John Thorpe; *Vice-President*, Wm. K. Harris; *Treasurer*, John Lane; *Secretary*, Edwin Lonsdale.

Its aim and object is the cultivation and improvement of the Chrysanthemum. To further this purpose an annual meeting and exhibition is held each year in conjunction with one of the Fall Flower Shows, the 1915 Meeting and Exhibition being held at Cleveland, Ohio, November 10, 11, 12, 13, and 14, 1915.

Examining Committees are appointed each year in New York, Boston, Philadelphia, Chicago and Cincinnati, to examine new varieties of chrysanthe-



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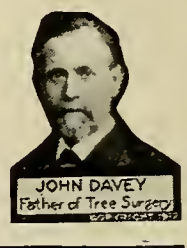

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CHRYSANTHEMUM SOCIETY OF AMERICA—(Continued)

mums submitted to them. These committees meet every Saturday during the months of October and November, and each variety of chrysanthemum scoring 85 points is awarded the C. S. A. certificate of merit. By this means the dissemination of undesirable varieties is curtailed, and to this is largely due the high standard which the chrysanthemum has attained.

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"SCHOOL GARDENING"

Our country is so large that to nationalize any movement is no small work, and to hold the interest of each section in particular work or object is difficult, but one effort to stir up common interest certainly meets with a well nigh universal appreciation, and that is "School Gardening."

The florists of this country are in a trade that helps greatly to develop beauty all around, and in the efforts made by the Society of American Florists and Ornamental Horticulturists to stimulate interest in some practical labor, by teaching in our schools a little gardening and floriculture, reports come from many points which show without question that the effort is having a helpful result.

Schools can never take the place of parental oversight and encouragement. In one dark back yard brought to our notice, overshadowed by other buildings, two boys came to invite us "to come see our garden." Sure enough, those youngsters had dug up a bit of waste ground, planted it, weeded and watered the ten or dozen feet square, which looked like an irrigated patch near Denver, Colo., so prolific it was, and these lads were pleased. This kind of work aids to develop American citizens of character. In many villages and small towns improvement societies exist, and these societies are usually excellent supporters of the florists' craft, directly and indirectly. By small prizes well distributed children are encouraged to keep up the home yards.

School Gardening has its greatest application in our great cities. School Gardening aims to take hold and interest the city boys. At a flower show held in New York City in the Museum of Natural History, the school children came in classes to view the exhibits. They are children born in congested sections of New York, and some of them never had been in the country, and the wonder at seeing so many flowers was expressed without reserve.

In the city of Philadelphia the school garden work is well organized, and the back yards of the thousands of little houses reveal a taste and industry of great importance to any one.

A truth full of vitality in the 20th Century is: "He that tilleth his land shall be satisfied with bread. Much food is in the tillage of the poor; but there is that which is destroyed for want of judgment."—Solomon, King of Israel.

BENJAMIN HAMMOND,
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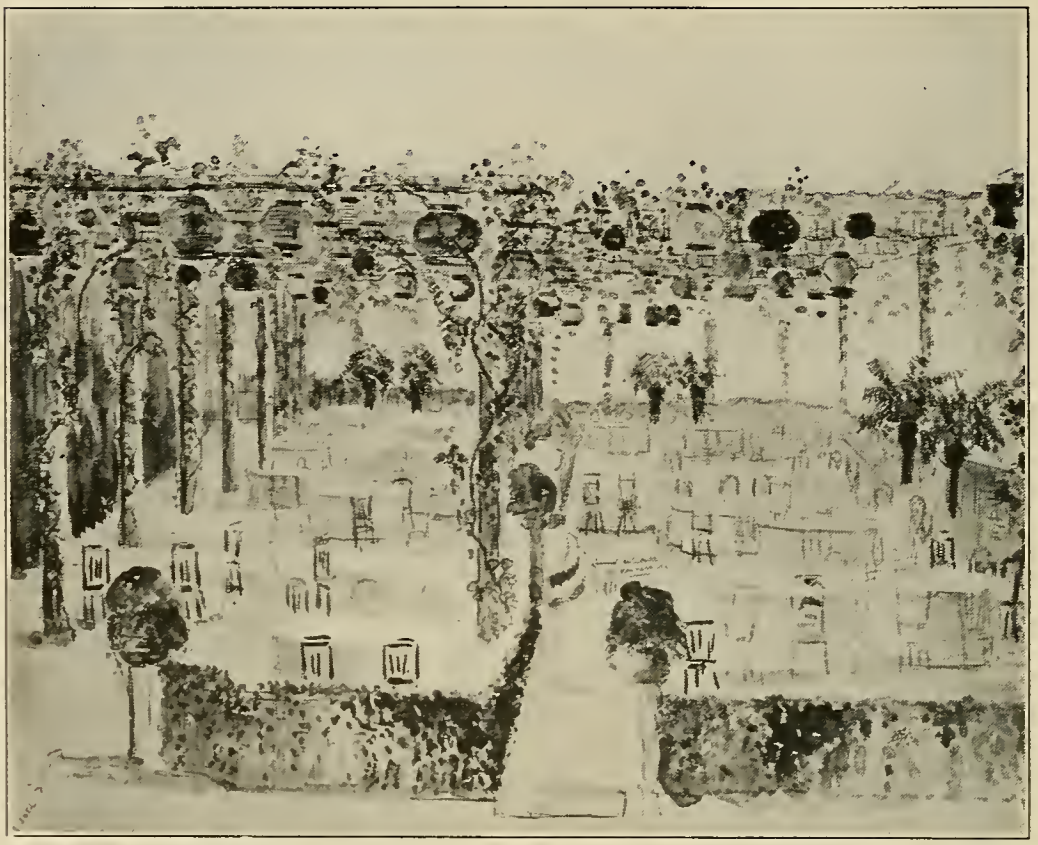

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THURSDAY AFTERNOON, MARCH 30. The Garden Club of Philadelphia.
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EVENING. The Country Week. Mrs. E. Boyd Weitzel, *Chairman*

FRIDAY AFTERNOON, MARCH 31. The Alumni Association of Philadelphia High School for Girls. Mrs. Charles D. Clark, *Chairman*
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SATURDAY AFTERNOON, APRIL 1. The School of Horticulture.
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During this time nine or ten States, besides, Canada and England, have been represented among the students, thus although situated in the eastern part of Pennsylvania, the School is truly a national institution.

The students receive two years of training in the growing of fruits, vegetables and flowers, supplemented by lectures and class room work in the underlying theory and sciences, but especial emphasis is laid on the practical work, for "practice makes perfect."

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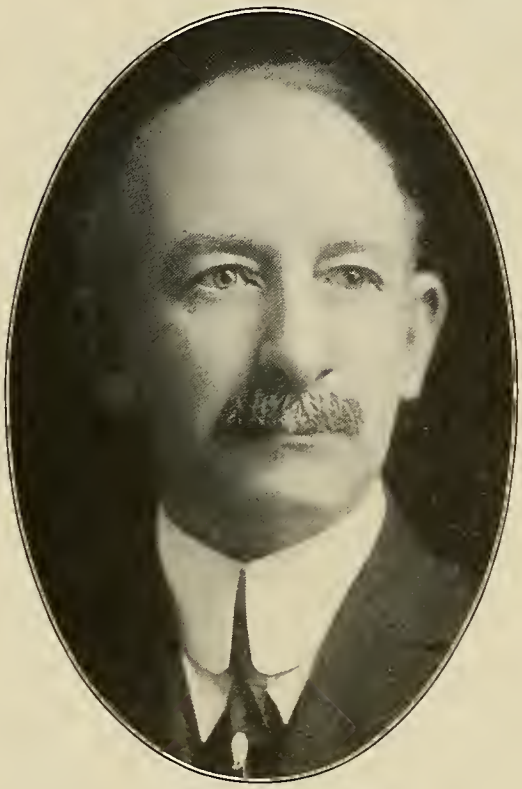

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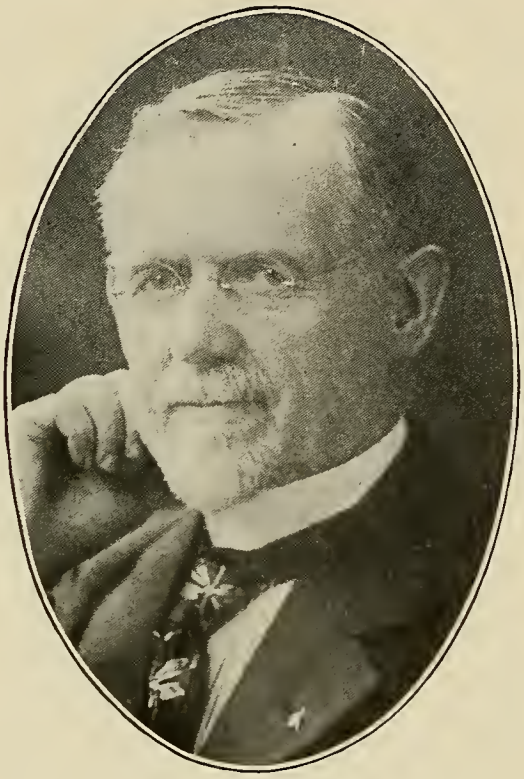

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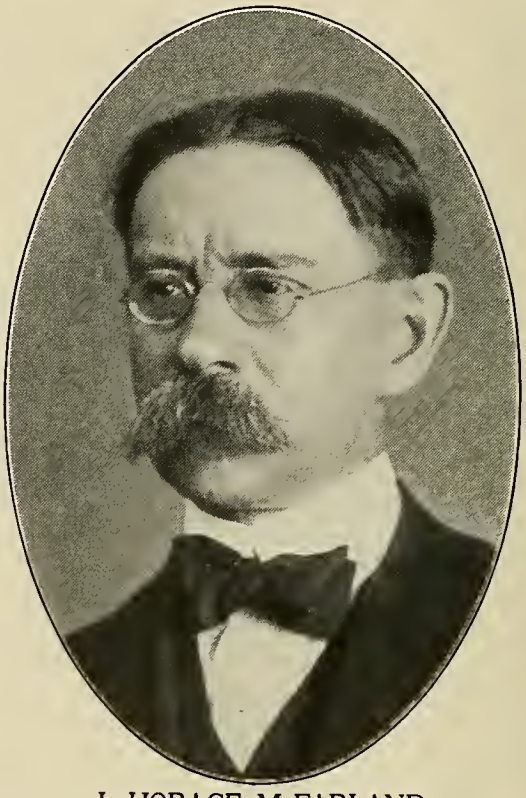

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EVENING LECTURES—8 P. M.

MARCH 25th—W. N. RUDD, Chicago.
Subject: "Home Grounds." Illustrated.

MARCH 27th—PROF. E. A. WHITE, Cornell University.
Subject: "Orchids." Illustrated.

MARCH 28th—ROBERT PYLE, West Grove, Pa.
Subject: "Roses." Illustrated.

MARCH 29th—FRANK N. MEYER, Dept. of Agriculture, Washington, D.C.
Subject: "Agricultural Explorations in China." Illustrated.

MARCH 30th—J. OTTO THILOW, Philadelphia.
Subject: "Flowers from Snow to Snow." Illustrated.
Under the Auspices of the Garden Clubs of America.

MARCH 31st—J. HORACE McFARLAND, President, American Civic Association.
Subject: "Civics for Home and Municipality." Illustrated.

APRIL 1st—ARTHUR COWEE, Berlin, New York.
Subject: "Gladioli." Illustrated.

AFTERNOON LECTURES—3.30 P. M.

MARCH 27th—RICHARD ROTHE, Glenside, Pa.
Subject: "Rock Gardens." Illustrated.

MARCH 28th—MAX SCHLING, New York.
Subject: "Flower Arrangement and Color Combination."

MARCH 30th—MISS CARO MILLER, Bureau of Education, Philadelphia
Subject: "School Gardening." Illustrated.

MARCH 30th—RICHARD VINCENT, President, American Dahlia Society.
Subject: "Dahlias." Illustrated.

MARCH 31st—MISS ELIZABETH LEIGHTON LEE, Ambler, Pa.
Subject: "School of Horticulture for Women and Its Work." Illustrated.

APRIL 1st—E. I. WILDE, State College, Pa.
Subject: "Bulbs for Summer Bloom." Illustrated.

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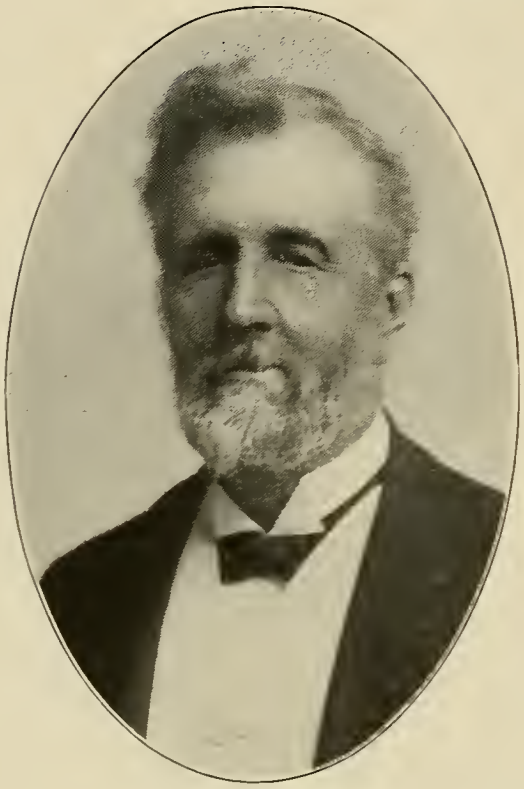

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THE PENNSYLVANIA HORTICULTURAL SOCIETY

The first of its kind in America, was organized at a meeting held in the hall of the Franklin Institute, Seventh Street below Market, on November 24, 1827, in response to the following notice in the newspapers:

PHILADELPHIA, November 20, 1827.

Those persons desirous to form a Horticultural Society are requested to meet at the Franklin Institute, South Seventh Street, on Saturday next at 12 o'clock precisely.

(Signed.) James Mease, M. D., George Pepper, Reuben Haines, Charles Chauncey, William Davidson, N. Chapman, M. D., John Vaughn, Joseph Hopkinson, Horace Binney, and Matthew Carey.

At the first meeting, Matthew Carey was called to the Chair and James Mease, M. D., appointed Secretary.

After deliberation it was "*Resolved*, That it is expedient to establish a Horticultural Society in the City of Philadelphia for the promotion of this highly instructive and interesting science, and that a constitution be framed for that purpose."

The following gentlemen were appointed a Committee to Draft a Constitution and By-Laws: Dr. J. Mease, T. Hibbert, Wm. Meredith, A. Parker, and M. Brown.

At the second meeting, held December 14, 1827, at 173 (o. n.) Chestnut Street, the constitution and by-laws presented by the Committee were received and approved; the annual dues were fixed at five dollars, and life membership at fifty dollars. It was also decided to admit honorary life members; those applying for this privilege to be of good moral character, and to pay the fee of one hundred dollars.

The third meeting was held June 2, 1828, at 173 Chestnut Street (o. n.). An amendment providing for the appointment of a council of twelve members was adopted; and the first regular election was held, resulting in the choice of the following officers:

President, Horace Binney.

Vice-Presidents, James Mease, M. D., Matthew Carey, David Landreth, Jr., N. Chapman, M. D.

Treasurer, William Davidson.

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Recording Secretary, David S. Brown.

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I take this opportunity to thank my esteemed clients for the courtesy they have shown me on different occasions. Many have called on me and it was always my aim to show them every possible attention. I hope all those who will come to New York and have not given me the pleasure of a call will do so in the near future.

THE PENNSYLVANIA HORTICULTURAL SOCIETY— (Continued)

Active Committee, or Council: George Pepper, Nicholas Biddle, Thomas Biddle, Robert Patterson, Daniel B. Smith, Moses Brown, M. C. Cope, Thomas Astley, David Landreth, Jr., Thomas Hibbert, Thomas Landreth, Joshua Longstreth.

EXHIBITIONS.

The Society held its first exhibition November 3, 1828, in the hall of the American Philosophical Society, Sixth Street below Chestnut; and exhibitions were held regularly at the monthly meeting while the Society continued to meet in this hall.

On December 7, 1829, the Council was constituted a Committee to Offer Premiums for Competition. On January 4, 1830, the Committee reported to the Society, offering premiums amounting to $42.00 for vegetables, and $81.00 for fruits.

The Society continued to hold exhibitions annually, in various places. They were always highly interesting and instructive and attracted a large attendance, and were the means of introducing many new varieties of fruits and vegetables now supplied to our markets.

The twenty-seventh autumnal exhibition was held under a tent in Penn Square, the site of the present Municipal Building, September 11 and 12, 1855, and the exhibition of 1856 was held at the same place.

The completion of Horticultural Hall was celebrated by an exhibition, held there, opening June 6, 1867. The Society thereafter held its exhibitions in its own hall, until the hall was destroyed by fire January 31, 1881. It was rebuilt and used by this Society until the second destruction by fire, May 27, 1893, when the Chrysanthemum Show was held at the Armory of the State Fencibles, Broad Street above Cherry. The 1894 Chrysanthemum Show was held in the Academy of Music, 1895, in the Academy of Fine Arts; the 1896 and subsequent exhibitions being held in the present Horticultural Hall.

This Society is the oldest in the United States devoted to the interests of Horticulture, and was organized in the hall of the Franklin Institute, Philadelphia, on March the 24th, 1827. Its objects as set forth in its charter, are to promote and encourage Horticulture and create a love and interest for Plants, Flowers, Fruits and Vegetables. There are numerous exhibitions held during the year, as well as meetings on the third Tuesday of each month, except July and August.

Lectures to the members by the most prominent Horticulturists are given in the Hall of the Society at three-thirty in the afternoon of the third Tuesday of each month.

BELLE WASHBURN

THE NEW RED CARNATION WITH AN UNBEATABLE RECORD BEHIND IT

Winner two years in succession of the American Carnation Society Silver Medals, 1915 and 1916. Also winner of the S. A. F. Silver Medal 1916, besides numerous first prizes and certificates at various shows in different parts of the country. This is purely a commercial Carnation—very bright clear red, large flower, non-splitable calyx, long stem and just as free blooming as Enchantress of which it is a seedling. Price $12.00 per 100 or $100.00 per 1000. Rooted cuttings from sand; also after April 1st we can furnish a limited number of plants from 2-inch pots ready to plant direct in the field or in the bench at the same price as the rooted cuttings.

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GREENHOUSES, HINSDALE, ILL.

Pennsylvania's Largest Wholesale Cut Flower Growers and Florists' Supply House

220 acres devoted to the culture of Cut Flowers, 10 acres under glass.
Sales Rooms occupy 17,600 square feet of floor space.

WE SPECIALIZE IN THE PRODUCTION OF ROSES, CARNATIONS, ORCHIDS, CHRYSANTHEMUMS AND ASPARAGUS PLUMOSA NANUS

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116-118 SEVENTH STREET PITTSBURGH, PA.

F. BURKI, *President*

T. P. LANGHANS, *Secretary*

W. A. CLARKE, *Treasurer*

THE PENNSYLVANIA HORTICULTURAL SOCIETY—(Continued)

The Pennsylvania Horticultural Society is supported entirely by dues from its members, and it is sending out this appeal to all those interested, in the hope that it may increase its membership, and, thereby, greatly enlarge its sphere of activity, not only in Philadelphia, but through the State, in promoting educationally a love and understanding of Horticulture, Floriculture and Agriculture.

LIST OF PRESIDENTS.

June, 1828—November, 1828. Horace Binney.
November, 1828—November, 1829. Zaccheus Collins.

1829—1831.	Joseph R. Ingersoll.	1867—1883.	Wm. L. Shäffer.
1831—1836.	George Vaux.	1884—1886.	J. E. Mitchell.
1836—1841.	Horace Binney.	1887—1888.	Isaac C. Price.
1841—1852.	Caleb Cope.	1889—1894.	George W. Childs.
1852—1858.	Robert Patterson.	1895—1898.	Clarence H. Clark.
1858—1862.	Matthias W. Baldwin.	1899—1901.	James M. Rhodes.
1862—1863.	J. E. Mitchell.	1902—1908.	James W. Paul, Jr.
1863—1864.	Fairman Rogers.	1909—1913.	C. B. Newbold.
1864.	J. E. Mitchell.	1913—1914.	Samuel T. Bodine.
1864—1867.	D. Rodney King.	1914—	C. Hartman Kuhn.

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Retail growers of Cut Flowers Blooming, Bedding, Bulbous and Decorative Plants. Corsages, Baskets, Funeral Designs

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PASSPORTS PROCURED

SCALE OF POINTS
BY WHICH PLANT EXHIBITS WILL BE JUDGED

Excepting exhibits in the Rose Section, which will be judged by the scale of the American Rose Society.

No. 1—Single Specimen Foliage Plants

Size of Plant	25
Cultural Perfection	35
Distinctiveness	15
Rarity	15
Form	10
	100

No. 2—Single Specimen Flowering Plants

Size of Plant	20
Cultural Perfection	35
Rarity	10
Floriferousness	15
Color	10
Foliage	10
	100

No. 3—Group of Foliage Plants

Size	10
Distinctiveness	20
Cultural Perfection	20
Rarity	10
Arrangement or Staging	30
Color Effect	10
	100

No. 4—Group of Flowering Plants

Size of Group	10
Rarity	10
Cultural Perfection	15
Arrangement	35
Quality of Flowers	20
Foliage	10
	100

NOW BEING BUILT

THE NEW HOME OF "KEYSTONE QUALITY" FLORISTS' SUPPLIES

WHEN COMPLETED IN JULY, WE WILL HAVE THE LARGEST AND FINEST FLORIST SUPPLY HOUSE IN THE WORLD

M. RICE CO.

At Present, 1220 Race Street, Philadelphia, Pa.

SECTION A

PLANTS IN FLOWER

To be staged Saturday, March 25

PRIVATE GROWERS

Class

1. Acacias, 3 plants, one or more varieties.
First Prize, $25.00. Second Prize, $15.00.

2. Acacia, specimen, any variety.
First Prize, $15.00. Second Prize, $10.00.

3. Acacia paradoxa, specimen.
First Prize, $15.00. Second Prize, $10.00.

4. Amaryllis, hybrid, 12 plants.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Henry A. Dreer, Inc., Philadelphia

5. Amaryllis, hybrid, 4 pots, one bulb to each pot.
First Prize, $5.00. Second Prize, $3.00.

Prizes offered by Henry F. Michell Co., Philadelphia

6. Anthuriums, 6 plants, not less than three varieties.
First Prize, $15.00. Second Prize, $10.00.

7. Anthurium, specimen.
First Prize, $5.00. Second Prize, $3.00.

8. Azalea Indica, 6 plants in variety, each plant not less than 2½ feet in diameter
First Prize, $50.00. Second Prize, $30.00.

First Prize offered by Geo. D. Widener, Jr., Ogontz, Pa.

9. Azalea Indica, specimen, white, not less than 4 ft. in diameter.
First Prize, $25.00. Second Prize, $15.00.

10. Azalea Indica, specimen, pink or rose, not less than 4 ft. in diameter.
First Prize, $25.00. Second Prize, $15.00.

11. Azalea Indica, specimen, any other color, not less than 4 ft. in diameter.
First Prize, $25.00. Second Prize, $15.00.

12. Azaleas any other type, 10 plants.
First Prize, $25.00. Second Prize, $15.00.

13. Begonias, 6 plants.
First Prize, $15.00. Second Prize, $10.00.

14. Boronias, 6 plants, not less than 2 varieties.
First Prize, $15.00. Second Prize, $10.00.

15. Bougainvillea, specimen.
First Prize, $10.00. Second Prize, $6.00.

WE SPECIALIZE IN

PHALAENOPSIS

AMABILIS and SCHILLERIANA

SEE OUR MR. D. MACRORIE
AT THE NATIONAL SHOW

MACRORIE-MCLAREN COMPANY

OFFICE, 452 PHELAN BUILDING, SAN FRANCISCO
NURSERIES, SAN MATEO, CALIFORNIA

SECTION A—Plants in Flower. Private Growers—(Continued)

Class

16. Cineraria, hybrids, 6 plants, assorted colors.
First Prize, Silver Cup. Second Prize, Michell Bronze Medal.
Prizes offered by Henry F. Michell Co., Philadelphia

17. Cineraria, hybrids, 6 plants.
First Prize, $25.00. Second Prize, $15.00.

18. Cineraria stellata, 6 plants.
First Prize, $25.00. Second Prize, $15.00.

19. Cineraria, specimen, any variety.
First Prize, Silver Cup, (Value $10.00). Second Prize, $6.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

20. Cyclamen, 12 plants, not less than 8-in. pots.
First Prize, $50.00. Second Prize, $30.00.
First Prize offered by Wm. F. Kasting, Buffalo, N. Y.

21. Cyclamen, 6 plants, not less than 8-in. pots.
First Prize, Silver Cup, (Value $25.00). Second Prize, $15.00.
First Prize offered by Bailey, Banks & Biddle, Philadelphia

22. Chorizema, specimen.
First Prize, $10.00. Second Prize, $6.00.

23. Ericas, specimen, any variety.
First Prize, Silver Cup, (Value $10.00). Second Prize, $6.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

24. Gardenias, 6 plants.
First Prize, $15.00. Second Prize, $10.00.

25. Genista, specimen.
First Prize, $10.00. Second Prize, $6.00.

25*a*. Genistas, 3 plants.
First Prize, $10.00. Second Prize, $5.00.
The "Lindenhurst Prize," offered by Mrs. John Wanamaker

26. Geraniums, 6 plants of "Helen Michell" variety, one plant to a pot, not over 10 in.
First Prize, $15.00. Second Prize, $10.00.
Prizes offered by Henry F. Michell Co., Philadelphia

27. Gerbera Jamesoni, 12 plants in bloom, not less than 6-in. pots.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.
Prizes offered by Henry F. Michell Co., Philadelphia

28. Heliotrope, 3 plants.
First Prize, Silver Cup, (Value $10.00). Second Prize, $5.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

BOSTON WHOLESALE FLORIST

CUT FLOWERS

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THOMAS TRACEY, Manager

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THE WHOLESALE COMMISSION HOUSE OF CANADA

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FEATURING THE PRODUCTS OF ITS BEST GROWERS

SECTION A—Plants in Flower. Private Growers—(Continued)

Class

29. Hydrangeas, French, 6 plants, in 8-in. pots, 6 varieties.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.

Prizes offered by Henry F. Michell Co., Philadelphia

30. Hydrangeas, 6 plants, 6 varieties, not less than 8-in. pots.
First Prize, Silver Cup, (Value $25.00). Second Prize, $15.00.

First Prize offered by Adolph Lewisohn, Ardsley, N. Y.

31. Hydrangeas, 3 plants, 3 varieties, not less than 8-in. pots.
First Prize, $15.00. Second Prize, $10.00.

32. Hydrangea, specimen.
First Prize, $10.00. Second Prize, $6.00.

33. Imantophyllum, 3 plants.
First Prize, $10.00. Second Prize, $6.00.

34. Lilac, 5 plants in 5 varieties, in pots.
First Prize, $7.50. Second Prize, $5.00.

Prizes offered by Hosea Waterer, Philadelphia

35. Lilac, 6 plants, in 6 varieties, pot grown.
First Prize, Michell Silver Medal. Second Prize, Michell Bronze Medal.

Prizes offered by Henry F. Michell Co., Philadelphia

36. Lilac, 10 plants, in variety.
First Prize, $25.00. Second Prize, $15.00.

37. Marguerites, 6 plants.
First Prize, $25.00. Second Prize, $15.00.

38. Marguerite, specimen.
First Prize, $5.00. Second Prize, $3.00.

39. Nemesia Strumosa Suttonii, best 3 pots.
First Prize, $5.00. Second Prize, $3.00.

Prizes offered by Henry A. Dreer, Inc., Philadelphia

40. Pansies, display of plants in bloom, covering 25 sq. ft.
First Prize, $10.00. Second Prize, $5.00.

Prizes offered by Henry A. Dreer, Inc., Philadelphia

41. Primula Chinensis, 6 plants.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Mrs. Charles Wheeler, Bryn Mawr, Pa.

41*a*. Primula malacoides, 12 plants.
First Prize, $10.00. Second Prize, $5.00.

The "Lindenhurst Prize," offered by Mrs. John Wanamaker

"RESULTS ARE WHAT COUNT"

THE HOUSE OF DICKSON HAS SPENT NOT YEARS BUT GENERATIONS IN HYBRIDIZING ROSES AND THIS SYSTEMATIC AND SCIENTIFIC WORK IS NOW SHOWING

RESULTS

The Grand Prize of **ONE THOUSAND DOLLARS** for the **Best Seedling Rose Exhibited at the Panama-Pacific Exposition** was awarded to HUGH DICKSON, LTD., of Belfast, Ireland, for a yellow Rose entered in competition with the whole world. This variety we will distribute in 1917, as we are his exclusive American Agent.

Our Own Exhibition of Hardy Roses was also awarded a **GOLD MEDAL** at this same Exposition.

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Dickson's Novelty Roses, which have received the highest awards possible, in Europe, are:

NELLIE PARKER

Creamy white, beautifully tinted with pink; flowers large and of perfect form.

PRINCE CHARMING

A bedding Rose of superlative excellence; color similar to Madam Herriott but the plant is a very much freer grower.

ULSTER GEM

A Single Rose; lovely primrose yellow; 6 inches across. The most charming Single Rose ever introduced, and the easiest to grow.

Prices: May 1st delivery in 4" pots; $2.50 per plant; $25.00 per dozen; f. o. b., Madison, New Jersey.

CLEVELAND

Deep glowing pink, named in honor of the great Cleveland Exhibition last fall.

GORGEOUS

Truly named on account of its gorgeous colorings of pink, yellow and bronze.

Prices: Two-year old; dormant plants; $1.50 each; 4" pot plants, 75 cents per plant; $7.50 per dozen. May 1st delivery.

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The Standard varieties of Roses are described in our catalogue which will be mailed on request to interested parties

CHARLES H. TOTTY

MADISON, N. J.

SECTION A—Plants in Flower. Private Growers—(Continued)

Class

42. Primulas, 12 plants, not less than 3 varieties.
First Prize, $10.00. Second Prize, $6.00.

43. Primulas, 6 plants, not less than 2 varieties.
First Prize, Silver Cup, (Value $5.00). Second Prize, $3.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

44. Primula obconica gigantea, 6 plants, assorted colors.
First Prize, Michell Silver Medal. Second Prize, Michell Bronze Medal.

Prizes offered by Henry F. Michell Co., Philadelphia

45. Rhododendrons, 3 plants, 3 varieties, not less than 4 ft. in diameter.
First Prize, $25.00. Second Prize, $15.00.

46. Rhododendron, Pink Pearl, 1 plant.
First Prize, $5.00. Second Prize, $3.00.

Prizes offered by Hosea Waterer, Philadelphia

47. Rhododendron, specimen, any color, not less than 4 ft. in diameter.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by J. J. Habermehl's Sons, Philadelphia

48. Schizanthus, 6 plants.
First Prize, $25.00. Second Prize, $15.00.

49. Schizanthus, 3 plants.
First Prize, $12.00. Second Prize, $8.00.

50. Schizanthus large flowering, 3 plants.
First Prize, $5.00. Second Prize, $3.00.

Prizes offered by Henry A. Dreer, Inc., Philadelphia

51. Schizanthus, specimen.
First Prize, Silver Cup, (Value $5.00). Second Prize, $3.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

52. Spiræa, or Astilbe, 10 plants, not less than 3 varieties.
First Prize, Silver Cup,(Value $10.00). Second Prize, $6.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

53. Spiræa, or Astilbe, 5 plants.
First Prize, $5.00. Second Prize, $3.00.

54. Spiræa, or Astilbe, 10-in. pot, Gladstone, pure white.
First Prize, $3.00. Second Prize, $2.00.

Prizes offered by Hosea Waterer, Philadelphia

55. Spiræa, or Astilbe, 10-in pot, Rubens, pink.
First Prize, $3.00. Second Prize, $2.00.

Prizes offered by Hosea Waterer, Philadelphia

56. Spiræa, or Astilbe, 10-in. pot, America, lilac rose.
First Prize, $3.00. Second Prize, $2.00.

Prizes offered by Hosea Waterer, Philadelphia

KIRKE SYSTEM
FERTILIZE WHILE WATERING OR DESTROY INSECTS

KIRKE SYSTEM: While you are watering you distribute Fertilizer, or Destroy Insects.

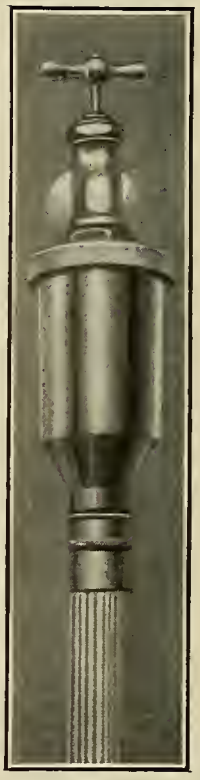
KIRKE SYSTEM: An ingenious, scientific method of combining in one operation the several others formerly attendant upon Fertilizers and Insecticides for Lawns, Gardens, Shrubbery and Foliage.

KIRKE SYSTEM: The only clean, odorless, positively active, easily handled, practicable, economical and efficient method of destroying Insects or Fertilizing, requiring no additional labor or experience.

KIRKE SYSTEM: Abolishes the use of unsanitary stable manure, so objectionable, because of its disagreeable odors and the great abundance of weed-seeds it contains.

KIRKE SYSTEM: Abolishes the use of cumbersome hand-pumps, hand sprayers, carts and wagons, etc., for distributing Insecticides and Fertilizers.

KIRKE SYSTEM: is without an experimental feature—it will work as well for you as for the thousands all over the country who already enjoy its benefits.



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Especially Useful for Piazza Plants, House Plants, Cemetery Plots and Small Gardens

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PRICES	Each	½ Doz.	Doz.
Kirke Cartridge Container	$3.00		
Kirke Fertilizer Cartridges	.30	$1.60	$3.00
Kirke Tobacco Insecticide	.30	1.60	3.00
Kirke Hot-House Special	.50	2.75	5.00
Kirke Arsenate of Lead	.40	2.30	4.50
Kirke Bordeaux Cartridges	.30	1.60	3.00
Kirke Angle Worm Destroyer	1.50		
Kirke Red Ant Destroyer	.40	2.30	4.50
Kirke Black Ant Destroyer	.30	1.60	3.00
Kirke Fly Destroyer (Pyxol)	.40	2.30	4.50
Kirke Snail Destroyer	.40	2.30	4.50

KIRKE SPRINKLING CAN PLANT FOOD

30 Cents per Box (12 Tablets)

$1.60 per Carton of Six Boxes (72 Tablets)

$3.00 per Carton of Twelve Boxes (144 Tablets)

SECTION A—Plants in Flower. Private Growers—(Continued)

Class

57. Spiræa, or Astilbe, 10-in. pots, Philadelphia, lavender pink.
First Prize, $3.00. Second Prize, $2.00.
Prizes offered by Hosea Waterer, Philadelphia

58. Stocks, Mammoth Beauty, 3 pots in 3 colors.
First Prize, $5.00. Second Prize, $3.00,
Prizes offered by Henry A. Dreer, Inc., Philadelphia

59. Flowering plant, any variety, other than above.
First Prize, Silver Cup, (Value $10.00). Second Prize, $6.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

60. Wistaria, specimen.
First Prize, $10.00. Second Prize, $6.00.

61. Group of flowering plants and bulbs, covering 200 sq. ft. arranged for effect (Orchids excluded).
First Prize, $150.00. Second Prize, $100.00.
First Prize offered by the Alphano Humus Co., New York

62. Group of blooming plants, intermingled with foliage plants, as a decoration to cover a space of 36 sq. ft.
First Prize, $20.00. Second Prize, $10.00.
Prizes offered by Henry F. Michell Co., Philadelphia

63. Group of flowering and foliage plants, arranged for effect, to cover 25 sq. ft., the stock shown to be produced from 2500 sq. ft. of glass or less, and the exhibitor to be a member of the Pennsylvania Horticultural Society.
Prize donated by Hugh B. Barclay, Merion, Pa., $25.00

64. Group of flowering and foliage plants, covering 20 sq. ft., arranged for effect.
First Prize, the Schling Gold Medal, offered by Max Schling, New York

65. Collection of hardy perennial plants in flower, covering 100 sq. ft.
First Prize, $50.00. Second Prize, $25.00.
Prizes offered by Henry A. Dreer, Inc., Philadelphia

CUT FLOWERS, ETC.

66. Cornflower, Dreer's Double Blue Annual, bunch of 100 flowers.
First Prize, $5.00. Second Prize, $3.00.
Prizes offered by Henry A. Dreer, Inc., Philadelphia

67. Lupines, annual, bunch of 25 spikes each, blue, white and rose.
First Prize, $5.00. Second Prize, $3.00.
Prizes offered by Henry A. Dreer, Inc., Philadelphia

68. Mushrooms, best plate.
First Prize, $5.00. Second Prize, $3.00.
Prizes offered by Henry F. Michell Co., Philadelphia

JOHN YOUNG GEORGE HILDENBRAND

THE GROWERS

IN PENNSYLVANIA AND CONTIGUOUS TERRITORY WOULD FIND IT PAY THEM TO MAKE REGULAR SHIPMENTS TO THE NEW YORK MARKET

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THE NEW YORK MARKET

absorbs and clears its daily arrival of flowers on a highly profitable basis. There is no uncertainty, consequently no loss.

WE CAN HANDLE THE PRODUCTS

of a few more growers of Roses, Carnations, and other staples, readily disposing of the same through our established connections, at *Top New York Market Prices*, which average better than the prices in other markets.

TRIAL SHIPMENTS ARE INVITED

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JOHN YOUNG & CO.

53 W. 28TH STREET

NEW YORK

TELEPHONE, 7362 MADISON SQUARE

SECTION B

PALMS AND FOLIAGE PLANTS

PRIVATE GROWERS

To be staged Saturday, March 25th

Class

75. Areca lutescens, specimen.
First Prize, $25.00. Second Prize, $15.00.

76. Begonia, Rex, 6 plants.
First Prize, $15.00. Second Prize, $10.00.

77. Begonia, Rex, 1 plant.
First Prize, Silver Cup, (Value $5.00). Second Prize, $3.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

78. Cocos Australis or its variety, specimen.
First Prize, $25.00. Second Prize, $15.00.

79. Cocos plumosus, specimen.
First Prize, $15.00. Second Prize, $10.00.

80. Cycad, specimen, any variety.
First Prize, $25.00. Second Prize, $15.00.

81. Crotons, 10 plants, 5 varieties.
First Prize, $25.00. Second Prize, $15.00.

82. Crotons, 5 plants, 5 varieties.
First Prize, $12.00. Second Prize, $8.00.

83. Croton, specimen.
First Prize, $15.00. Second Prize, $10.00.

84. Dracænas, 5 plants, not less than 3 varieties.
First Prize, $15.00. Second Prize, $10.00.

85. Dracænas, 3 plants, not less than 8-in. pots.
First Prize, $8.00. Second Prize, $5.00.

86. Dracæna, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

87. Kentia Forsteriana, 2 plants.
First Prize, $50.00. Second Prize, $25.00.

88. Kentia Forsteriana, specimen.
First Prize, $25.00. Second Prize, $15.00.

89. Kentia Belmoreana, 2 plants.
First Prize, the McDonald & Campbell Cup, (Value $50.00).
Second Prize, $25.00.

First Prize offered by McDonald & Campbell Co., Philadelphia

90. Kentia Belmoreana, specimen.
First Prize, $25.00. Second Prize, $15.00.

91. Nepenthes, 3 plants in variety.
First Prize, $15.00. Second Prize, $10.00.

The Moninger All Steel Frame

(SAFE AND SURE)

You who know all the troubles of Greenhouse Construction—
You who have seen your house sway in the storm—
You who have lost money because of breakages, repairs, and collapse of greenhouses—
Investigate the most radical development in greenhouse construction that has ever been accomplished—

THE MONINGER ALL STEEL FRAME
(SAFE AND SURE)

You have been seeking the perfect method of construction. You knew it would have to come—eventually. It has come, at last. Find out about it today. (Full information on request—and that means your greenhouse problems solved safely, economically, surely.)

JOHN C. MONINGER COMPANY

807 MARBRIDGE BUILDING

CHICAGO NEW YORK CITY CINCINNATI

WHEN HOME AGAIN FROM THE FLOWER SHOW, PLEASE THINK THIS OVER

LIQUID—"NICO-FUME"—PAPER

40% nicotine, and highly refined. Actual grains of nicotine stated on labels.

New Style. Sheets 108 square inch. each. Burns freely. Packed in air-tight tin cans.

Are Leaders in the Largest Greenhouses for Spraying, Vaporizing, Fumigating against Thrips, Green Fly, Black Fly, etc.

TRY "NICO-FUME" AND BE CONVINCED

DEALERS WILL SUPPLY YOU ASK FOR "NICO-FUME"

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THE KENTUCKY TOBACCO PRODUCT CO.

Incorporated **Louisville, Ky.**

SECTION B—Palms and Foliage Plants. Private Growers—(Continued)

Class

92. Phœnix Roebelenii, 3 plants.
First Prize, $25.00. Second Prize, $15.00.

93. Phœnix Roebelenii, specimen.
First Prize, $15.00. Second Prize, $10.00.

94. Phœnix Rupicola, 2 plants.
First Prize, $50.00. Second Prize, $25.00.

95. Phœnix Rupicola, specimen.
First Prize, $25.00. Second Prize, $15.00.

96. Phœnix, any other variety.
First Prize, $25.00. Second Prize, $15.00.

97. Palm, specimen, other than above.
First Prize, $25.00. Second Prize, $15.00.

97*a*. Palms, best six specimens, six varieties.
First Prize, $30.00. Second Prize, $20.00.

The "Lindenhurst Prize," offered by Mrs. John Wanamaker

98. Palms, best six specimens, any variety or varieties.
First Prize, $100.00.

Special Prize offered by H. H. Battles, Philadelphia

99. Bay Trees, 2 plants.
First Prize, $25.00. Second Prize, $15.00.

100. Six foliage plants, exclusive of Palms, not less than 8-in. pots, pans, or tubs.
First Prize, Silver Cup, (Value $50.00). Second Prize, $30.00.

First Prize offered by Bailey, Banks & Biddle, Philadelphia, Pa.

101. Specimen foliage plant, other than above.
First Prize, $10.00. Second Prize, $6.00.

102. Collection of new and rare plants.
First Prize, Gold Medal and $50.00. Second Prize, Silver Medal and $30.00.

SECTION C

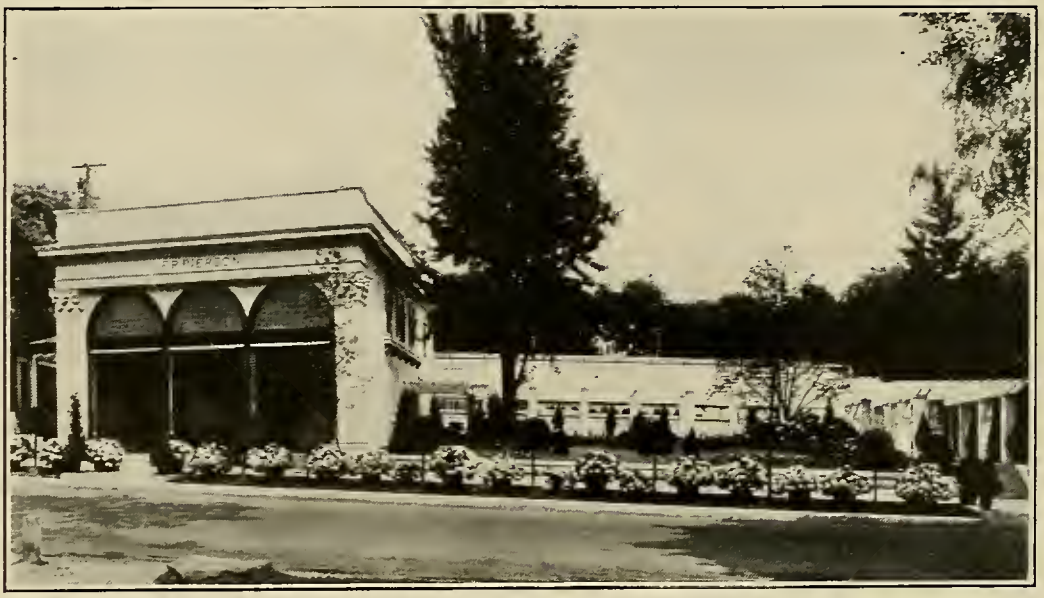
FERNS AND SELAGINELLAS

PRIVATE GROWERS

To be staged Saturday, March 25th

110. Adiantum Farleyense, specimen.
First Prize, $15.00. Second Prize, $10.00.

111. Adiantum cuneatum, specimen.
First Prize, $10.00. Second Prize, $6.00.



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Landscape work is a most important feature of our business. We have superior facilities for furnishing everything in the horticultural line for the garden or country estates, and are prepared to design and carry out the most elaborate plans for planting private estates, either large or small. We employ experienced draughtsmen, and will be glad to submit suggestions or plans.

When out Motoring, Stop and See Us **Catalogue Mailed on Application**

SECTION C—Ferns and Selaginellas. Private Growers—(Continued)

Class

112. Adiantum, any other variety, specimen.
First Prize, $10.00. Second Prize, $6.00.

113. Cibotium Schiedei, specimen not less than 10 ft. spread.
First Prize, $25.00. Second Prize, $15.00.

114. Ferns, 6 plants, 6 varieties, not less than 8-in. pots.
First Prize, $25.00. Second Prize, $15.00.

115. Davallia, specimen, any variety.
First Prize, $15.00. Second Prize, $10.00.

116. Fern, any other variety, not otherwise specified.
First Prize, $15.00. Second Prize, $10.00.

117. Gleichenia, specimen.
First Prize, $15.00. Second Prize, $10.00.

118. Goniophlebium Subauriculatum, specimen.
First Prize, $25.00. Second Prize, $15.00.

119. Nephrolepis, four plants, one or more varieties.
First Prize, Silver Vase. Second Prize, Glass Vase.

Prizes offered by the Aphine Manfg. Co., Madison, N. J.

120. Polypodium, specimen.
First Prize, $15.00. Second Prize, $10.00.

121. Pteris Rivertoniana, specimen, single plant, or made up of not more than three plants.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Henry A. Dreer, Inc., Philadelphia

122. Selaginellas, three plants.
First Prize, $5.00. Second Prize, $3.00.

123. Stag's Horn Fern, specimen.
First Prize, $15.00. Second Prize, $10.00.

124. Tree Fern, specimen.
First Prize, $25.00. Second Prize, $15.00.

SECTION D

ORCHIDS—PLANTS

PRIVATE GROWERS

To be staged Saturday, March 25th

130. Collection covering 50 sq. ft. Arranged for effect, Palms and Ferns permitted.
First Prize, $100.00. Second Prize, $75.00.

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SECTION D—Orchids—Plants. Private Growers—(Continued)

Class

131. Six plants, in variety.
First Prize, $25.00. Second Prize, $15.00.

132. Three plants, in variety.
First Prize, $15.00. Second Prize, $10.00.

133. Brasso-Cattleya, or Brasso-Lælia, 1 plant.
First Prize, $15.00. Second Prize, $10.00.

134. Cattleya Mossiæ, specimen.
First Prize, $15.00. Second Prize, $10.00.

135. Cattleya Schroderæ, specimen.
First Prize, $15.00. Second Prize, $10.00.

136. Cattleya, specimen, any other variety.
First Prize, $15.00. Second Prize, $10.00.

137. Cypripediums, 12 plants, 6 or more varieties.
First Prize, $15.00. Second Prize, $10.00.

138. Cypripedium, specimen.
First Prize, $10.00. Second Prize, $6.00.

139. Dendrobiums, 6 plants, not less than 3 varieties.
First Prize, $15.00. Second Prize, $10.00.

140. Dendrobium nobile, specimen.
First Prize, $10.00. Second Prize, $6.00.

141. Dendrobium Wardianum, specimen.
First Prize, $10.00. Second Prize, $6.00.

142. Dendrobium, specimen, any other variety.
First Prize, $10.00. Second Prize, $6.00.

143. Cattleya, Lælia, or Lælio-Cattleya Hybrid, specimen.
First Prize, $15.00. Second Prize, $10.00.

144. Lælia, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

145. Odontoglossum specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

146. Oncidium, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

147. Phalænopsis, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

148. Vanda, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

149. Vanda, specimen, other than above.
First Prize, $10.00. Second Prize, $8.00.

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SECTION E

BULBS—IN FLOWER

PRIVATE GROWERS

To be staged Saturday, March 25th

Class

160. Bulbs in bloom in pots, or pans, arranged for effect with foliage plants, to occupy a table of 50 sq. ft.
First Prize, $25.00. Second Prize, $15.00.

161. Hyacinths, Lady Derby, pink, 12-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

162. Hyacinths, La Grandesse, white, 12-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

163. Hyacinths, Queen of the Blues, blue, 12-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

164. Single Early Tulips, Golden Queen, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

165. Single Early Tulips, White Hawk, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

166. Single Early Tulips, Sir Thos. Lipton, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

167. Darwin Tulips, Clara Butt, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

168. Darwin Tulips, Pride of Haarlem, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

169. Darwin Tulips, Mme. Krelage, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

170. Narcissus, Glory of Leiden, 12-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

171. Narcissus Emperor, 12-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

172. Narcissus, Sir Watkin, 12-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

173. Narcissus, Poeticus King Edward, 10-in. pot or pan.
First Prize, $5.00. Second Prize, $3.00.

Prizes offered by Henry A. Dreer, Inc., Philadelphia

174. Hyacinths, City of Haarlem, yellow, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

175. Hyacinths, La Victoire, pink, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

176. Hyacinths, La Grandesse, white, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

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Design Book (for Solicitors), new - - - - 50c
1 doz., $4.50; 50 copies, $16.50; 100 copies, $30
Fruits and Vegetables under Glass - - - $5.00
Gardeners and Florists' Annual (1916) - - 50c
Heather, The, In Lore, Lyric and Lay - $1.00
House Plants, Success with - - - - - - - 50c
Landscape Gardening, Practical - - - - $1.50
(Ready in April)
Mushroom Culture - - - - - - - - - - 10c
Plant Culture - - - - - - - - - - - $1.50
Plant Propagation - - - - - (In preparation)
Rose Culture, Commercial - - - - - - $1.50
Sweet Peas for Profit, - - - - - - - $1.50
Violet Culture, Commercial - - - - - $1.50
Water Gardening, The Book of - - - - $2.50

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SECTION E—Bulbs in Flower. Private Growers—(Continued)

Class

177. Hyacinths, King of Blues, blue, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

178. Darwin Tulips, Calliope, rose, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

179. Darwin Tulips, Farncombe Sanders, red, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

180. Darwin Tulips, Nauticus, rose, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

181. Darwin Tulips, Pride of Haarlem, scarlet, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

182. Darwin Tulips, Suzon, delicate rose, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

183. Darwin Tulips, Wm. Copland, lilac rose, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

184. Single Early Flowering Tulips, Brilliant Star, scarlet, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

185. Single Early Flowering Tulips, Pink Beauty, pink, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

186. Single Early Flowering Tulips, Rising Sun, yellow, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

187. Single Early Flowering Tulips, President Cleveland, pink, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

188. Single Early Flowering Tulips, White Beauty, white, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

189. Double Early Tulips, Golden King, yellow, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00

190. Double Early Tulips, Schoonord, white, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

191. Double Early Tulips, El Toreador, bronze and orange, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

192. Narcissus, King Alfred, yellow, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

193. Narcissus, Madame De Graff, white, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

194. Narcissus, Van Waveren's Giant, yellow, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

195. Narcissus, Olympia, pale yellow, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

196. Narcissus—Nestaz Poetaz, Aspasia, white with yellow-eye, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

197. Narcissus---Nestaz Poetaz, Irene, yellow with orange eye, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

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SECTION E—Bulbs in Flower. Private Growers—(Continued)

Class

198. Narcissus—Nestaz Poetaz, Klondyke, yellow with golden eye, 12-in. pan.
First Prize, $5.00. Second Prize, $3.00.

199. Lily of the Valley, 14-in. pan.
First Prize, $5.00. Second Prize, $3.00.

200. Easter Lilies, 3 pots, one bulb to pot, not over 8 in.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by Hosea Waterer, Philadelphia

201. Darwin Tulips, Bartigon, one pot or pan.
First Prize, $3.00. Second Prize, $2.00.

202. Darwin Tulips, Princess Elizabeth, one pot or pan.
First Prize, $3.00. Second Prize, $2.00.

203. Darwin Tulips, Wm. Copland, one pot or pan.
First Prize, $3.00. Second Prize, $2.00.

204. Darwin Tulips, Painted Lady, one pot or pan.
First Prize, $3.00. Second Prize, $2.00.

205. Cottage Tulip, The Fawn, one pot or pan.
First Prize, $3.00. Second Prize, $2.00.

206. Breeder Tulip, Janne D'Alf, one pot or pan.
First Prize, $3.00. Second Prize, $2.00.

Prizes offered by Zandbergen Bros., Valkenburg, near Leiden, Holland

207. The American Flag, in frame 4 x 6 ft., the design to be composed of Hyacinths, Tulips, or any other bulbs.
First Prize, $25.00. Second Prize, $10.00.

208. Tulips, pan, not over 12-in., of Flamingo.
First Prize, $5.00. Second Prize, $3.00.

209. Tulips, pan, not over 12-in., of Tea Rose.
First Prize, $5.00. Second Prize, $3.00.

210. Tulips, pan, not over 12 in., of Pink Beauty.
First Prize, $5.00. Second Prize, $3.00.

211. Tulips, pan, not over 12 in., of Rising Sun.
First Prize, $5.00. Second Prize, $3.00.

212. Tulips, pan, not over 12 in., of Lucretia.
First Prize, $5.00. Second Prize, $3.00.

213. Tulips, pan, not over 12 in., of Couronne des Roses.
First Prize, $5.00. Second Prize, $3.00.

214. Double Tulips, 6 pans, 6 varieties, pans not over 10 in.
First Prize, Silver Cup; Second Prize, Michell Silver Medal.

215. Single Tulips, 6 pans, not over 10 in.
First Prize, Silver Cup; Second Prize, Michell Silver Medal.

216. Collection of 100 Tulips, 4 colors, in 4 vases of 25 each.
First Prize, Silver Cup; Second Prize, Michell Silver Medal.

217. Late Tulips, pan, not over 12 in., of Queen of Brilliants.
First Prize, $5.00. Second Prize, $3.00.

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To fully encompass the many radical changes in greenhouse and conservatory adaptations, and consequent advance in construction, we have just completed a greenhouse catalag of unusual completeness.

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SECTION E—Bulbs in Flower. Private Growers—(Continued)

Class

218. Late Tulips, pan, not over 12 in., of Wm. Copeland.
First Prize, $5.00. Second Prize, $3.00.

219. Late Tulips, pan, not over 12 in., of Pride of Haarlem.
First Prize, $5.00. Second Prize, $3.00.

220. Late Tulips, pan, not over 12 in., of Mrs. Farncomb Sanders.
First Prize, $5.00. Second Prize, $3.00

221. Late Tulips, pan, not over 12 in., of Lucifer.
First Prize, $5.00. Second Prize, $3.00.

222. Narcissus, pan, not over 12 in., of Golden Spur.
First Prize, $5.00. Second Prize, $3.00.

223. Narcissus, pan, not over 12 in., of Poetaz Elvira.
First Prize, $5.00. Second Prize, $3.00.

224. Narcissus, pan, not over 12 in., of Emperor.
First Prize, $5.00. Second Prize, $3.00.

225. Narcissus, pan, not over 12 in., of King Alfred.
First Prize, $5.00. Second Prize, $3.00.

226. Narcissus, single, 6 pans, not over 10 in., 3 varieties.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.

227. Narcissus, collection of 100 in 2 vases, 50 Double Von Sion, 50 Single King Alfred.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.

228. Hyacinths, one pan, not over 12 in., of each; British Queen, white. Enchantress, blue. Queen of Pinks, pink.
First Prize, $10.00. Second Prize, $5.00.

229. Hyacinths, 6 pans, not over 10 in., in 6 varieties.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.

230. Easter Lilies, 5 pots, not over 8 in., 1 bulb to a pot.
First Prize, $10.00. Second Prize, $5.00.

231. Lily of the Valley, pan, not over 14 in.
First Prize, $5.00. Second Prize, $3.00.

232. Callas, 2 pots, not over 8 in., white.
First Prize, $5.00. Second Prize, $3.00.

233. Callas, 2 pots, not over 8 in., pure yellow.
First Prize, $5.00. Second Prize, $3.00.

234. Miniature Lawn, to occupy 30 sq. ft., made from greenhouse-grown sod produced from Michell's "Top-notch" lawn grass seed mixture, and to be laid out with two bulb beds of a size to correspond with the size of the lawn; the bulb beds may be Hyacinths, Tulips or Daffodils, and the bulbs must be in bloom.

Prizes offered by Henry F. Michell Co., Philadelphia

First Prize, Michell Gold Medal and $10.00 in Gold. Second Prize, Michell Silver Medal and $5.00 in Gold

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AMERICAN ROSE SOCIETY

The American Rose Society was organized at New York, March 13, 1899, the officers then elected being as follows: President, Wm. C. Barry, Rochester, N. Y.; vice-president, Benjamin Dorrance, Dorranceton, Pa.; secretary, Paul M. Pierson, Scarborough, N. Y.; treasurer, John N. May, Summit, N. J. Executive Committee: E. G. Hill, Richmond, Ind.; E. G. Asmus, West Hoboken, N. J.; N. Butterbach, Oceanic, N. J.; Henry A. Siebrecht, New Rochelle, N. Y.; Edmund M. Wood, Natick, Mass.; Robert Craig, Philadelphia, Pa.

The Society holds each year an annual exhibition in March and a Summer exhibition in June. The first annual exhibition was held at the Eden Musee, New York, March 27-29, 1900, and the first Summer exhibition at the same place, June 12–14, 1900. A bulletin, the first number of which appeared in March, 1900, is published occasionally.

ITS OBJECT

First: To increase the general interest in the cultivation and to improve the standard of excellence of the Rose for all the people.

Second: To foster, stimulate and increase the production in every possible way of improved varieties of the Rose suitable to our American climate and requirements.

Third: To organize a system of exhibitions at such times and places as this Society may from time to time decide on, to offer prizes of money, gold, silver and bronze medals, and certificates of merit for meritorious new varieties of Roses; also to offer prizes of money, cups, etc., for excellence of exhibits made at shows held by this Society.

It is also proposed that the Society disseminate to its members the latest information pertaining to the Rose, recommending new varieties of undoubted merit, best methods of culture, how to fight insect and fungoid pests, the proper use of manures and other information from the pens of leading experts that, especially to amateurs, will be worth many times the cost of membership.

The Society has three classes of members, viz.: Life, Active and Associate members.

The Associate or Amateurs the Society invites, and that is why it has the Associate Members' class. Except voting, this membership entitles one to all the privileges of the Society; free admission to shows, and full reports of all proceedings as well as cultural articles of importance to Amateurs.

BENJAMIN HAMMOND,
Secretary

Beacon, N. Y.

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TO THE OFFICERS AND MANAGEMENT OF THE NATIONAL FLOWER SHOW

GEORGE B. HART
WHOLESALE FLORIST
ROCHESTER, NEW YORK

SECTION F

ROSES

The schedule covering this section is prepared by the American Rose Society and includes the annual exhibition of this Society

ROSES IN POTS AND TUBS

PRIVATE GROWERS

To be staged Saturday, March 25th

Class

250. Best display of Rose plants any or all classes arranged for effect. To cover 100 sq. ft. of space.
First Prize, $100.00 Second Prize, $50.00.

251. 6 Climbing or Rambler Roses, 3 or more varieties.
First Prize, Silver Cup (Value $50.00). Second Prize, $25.00.

Silver Cup offered by J. E. Caldwell Co., Philadelphia

252. Dorothy Perkins, Lady Gay, or Minnehaha, specimen.
First Prize, Silver Cup,(Value $10.00). Second Prize, $6.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

253. Tausendschon, specimen.
First Prize, $10.00. Second Prize, $6.00.

254. Hiawatha, specimen.
First Prize, $10.00. Second Prize, $6.00.

255. Excelsa or Crimson Rambler, specimen.
First Prize, Silver Cup, (Value $10.00). Second Prize, $6.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

256. Mrs. M. H. Walsh or White Dorothy Perkins, specimen.
First Prize, $10.00. Second Prize, $6.00.

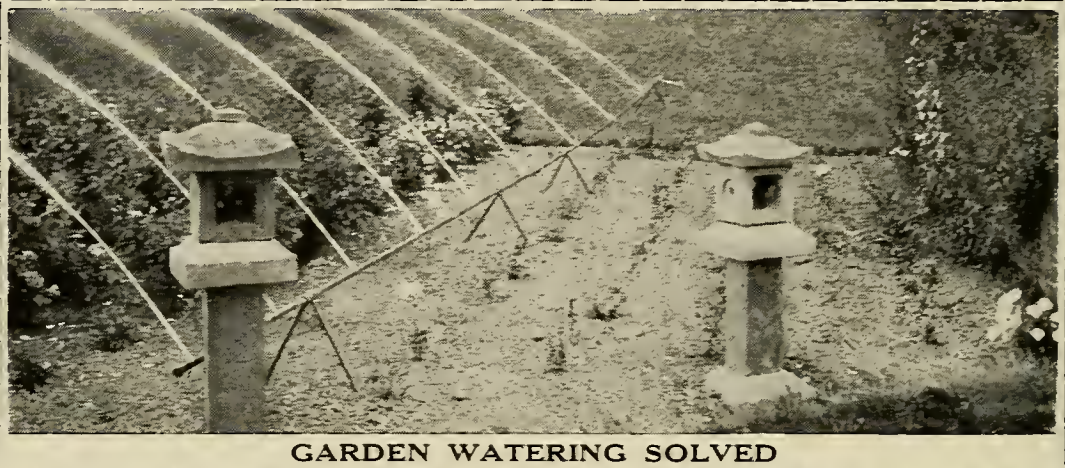
257. Any other single-flowered variety, specimen.
First Prize, $10.00. Second Prize, $6.00.

258. Any other double or semi-double-flowered variety, specimen.
First Prize, $10.00. Second Prize, $6.00.

259. 6 plants Hybrid Perpetuals, one or more varieties.
First Prize, $10.00. Second Prize, $6.00.

260. 6 plants Dwarf Polyanthas one or more varieties.
First Prize, Silver Cup, (Value $10.00). Second Prize, $6.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia



GARDEN WATERING SOLVED

NOW-A-DAYS having a garden doesn't mean spending half the summer on the end of a hose.

The solution is, a complete life sized Portable Line Skinner System of Irrigation. A little taste of the sort of irrigation which such commercial growers as Burbank, Dreers, and Burpee are using in a big way. It goes up in a jiffy and costs just a little more than garden hose.

The water falls in a gentle rain that will not harm the plants nor pack the soil.

Just as hose is purchased, it comes all complete. Installation is made without any special tools. Quick acting couplings make it portable. Buy it with or without supports—as you choose.

For $11.75 you can have one of these Complete Portable Watering Lines, 50 feet long. One line waters 25 feet on each side of it; or 2,500 square feet in all. 100 foot line $23. Can be furnished in any length.

Freight prepaid East of the Mississippi when remittance comes with order.

Send for Catalog.

SKINNER SYSTEM OF IRRIGATION

211 Water St. - THE SKINNER IRRIGATION CO. - Troy, Ohio

FOTTLER, FISKE, RAWSON CO.

Supply the Highest Quality Flower Seeds for Florists and Private Gardeners

A FEW SEED SPECIALTIES

ASTERS, ANTIRRHINUM, CYCLAMEN, CINERARIA, PANSIES, PETUNIA, PRIMULA, SALPIGLOSSIS, SWEET PEAS and BOSTON FLOWER MARKET STOCKS

SPRING BULBS

BEGONIAS, CALADIUMS, DAHLIAS, GLADIOLI, GLOXINIAS

A Complete Assortment of **FALL BULBS** including Hyacinths, Narcissus, Tulips, Lilies, Spirea, Gladiolus.
Our Special Strain Purity Freesia

HIGHEST GRADE SEEDS FOTTLER FISKE RAWSON CO. BOSTON

HIGHEST GRADE SEEDS FOTTLER FISKE RAWSON CO. BOSTON

12 & 13 FANEUIL HALL SQUARE
BOSTON, MASS.

SECTION F—Schedule of the American Rose Society. Private Growers—(Continued)

Class

261. 12 plants Dwarf Polyanthas, one or more varieties.
First Prize, Gold Watch, (Value $25.00). Second Prize, $12.00.
First Prize offered by Lord & Burnham Co., Irvington, N. Y.

262. Best new variety not in commerce.
American Rose Society Silver Medal.

263. Best collection of Hybrid Teas in bloom, covering 100 sq. ft.
First Prize, $50.00. Second Prize, $25.00.
Prizes offered by Henry A. Dreer, Inc., Philadelphia

CUT ROSES

PRIVATE GROWERS

To be staged Monday, March 27th

264. 12 American Beauty.
First Prize, $6.00. Second Prize, $4.00.

265. 12 Mrs. Chas. Russell.
First Prize, $4.00. Second Prize, $2.00.

266. 12 Killarney Brilliant.
First Prize, Silver Cup, (Value $5.00). Second Prize, $2.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

267. 12 Killarney, or Double Pink Killarney.
First Prize, $4.00. Second Prize, $2.00.

268. 12 White Killarney, or any Killarney white sport.
First Prize, $4.00. Second Prize, $2.00.

269. 12 Prince d'Arenberg.
First Prize, $4.00. Second Prize, $2.00.

270. 12 Hadley.
First Prize, Silver Cup, (Value $5.00). Second Prize, $2.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

271. 12 Mrs. George Shawyer.
First Prize, $4.00. Second Prize, $2.00.

272. 12 Lady Alice Stanley.
First Prize, Silver Cup, (Value $5.00). Second Prize, $2.00.
First Prize offered by W. Atlee Burpee & Co., Philadelphia

273. 12 My Maryland.
First Prize, $4.00. Second Prize, $2.00.

274. 12 Jonkheer J. L. Mock.
First Prize, $4.00. Second Prize, $2.00.

THE HOUSE OF MICHELL

Salesrooms and Offices 518 Market St.

Warehouses 509-11-13 Ludlow St.

Nurseries, Greenhouses and Trial Grounds, Andalusia, Pa.

ONE OF THE BEST EQUIPPED SEED ESTABLISHMENTS IN THE UNITED STATES "COME AND SEE"

Descriptive, well Illustrated Catalogue Free—240 Pages

518 MARKET STREET—PHILADELPHIA'S BUSIEST THOROUGHFARE

SECTION F—Schedule of the American Rose Society. Private Growers—(Continued)

Class

275. 12 Ophelia.
First Prize, $4.00. Second Prize, $2.00.

276. 12 Sunburst.
First Prize, $4.00. Second Prize, $2.00.

277. 12 Mrs. Aaron Ward.
First Prize, $4.00. Second Prize, $2.00.

278. 12 sprays George Elger.
First Prize, $4.00. Second Prize, $2.00.

279. 12 sprays Cecile Brunner.
First Prize, $4.00. Second Prize, $2.00.

280. 12 sprays any other Polyantha.
First Prize, $4.00. Second Prize, $2.00.

281. 12 sprays any single Rose.
First Prize, Silver Cup, (Value $5.00). Second Prize, $2.00.

First Prize offered by W. Atlee Burpee & Co., Philadelphia

282. 12 Any other disseminated white.
First Prize, $4.00. Second Prize, $2.00.

283. 12 Any other disseminated yellow.
First Prize, $4.00. Second Prize, $2.00.

284. 12 Any other disseminated red.
First Prize, $4.00. Second Prize, $2.00.

285. 12 Any other disseminated pink.
First Prize, Silver Medal. Second Prize, Bronze Medal.

These Medals are offered by the Toronto Horticultural Society, Toronto, Ont., Canada

THE SECRETARY'S PRIZE

Benjamin Hammond, secretary of the American Rose Society, offers a special prize of ten dollars in cash for the prettiest exhibition of Roses, the same to be decided by a vote of the lady visitors.

OPEN TO AMATEURS ONLY

Special. Best collection of Hybrid Teas, to comprise the following varieties, which are suitable for outdoor cultivation: Killarney, or double Pink Killarney, Lady Alice Stanley, My Maryland, Jonkheer J. L. Mock, Ophelia, and Mrs. Aaron Ward.
Prize, $50.00.

Offered by George C. Thomas, Jr., Chestnut Hill, Pa.

Special. Best collection of climbing Roses, in flower.
Prize, $50.00.

Prize offered by George C. Thomas, Jr., Chestnut Hill, Pa.

ROSE PLANTS

Write for Complete
List of

THE STANDARD AND NEWER VARIETIES

Philadelphia, 1608-1620 Ludlow St.
New York, 117 West 28th St.
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S. S. PENNOCK-MEEHAN CO.

The Wholesale Florists of Philadelphia

ROBERT CRAIG COMPANY INC.
PHILADELPHIA

PLANTS OF ALL KINDS, INCLUDING THE BEST FOR EASTER AND CHRISTMAS

CROTONS, ROSES, ARECAS AND FERNS. CYCLAMEN, BEGONIAS AND COMPLETE COLLECTION OF SPRING AND GARDEN PLANTS

VISITORS ARE ALWAYS WELCOME

MARKET & 49TH STS. NORWOOD, PA.

CATALOGUE MAILED ON REQUEST OR MAY BE HAD AT OUR EXHIBIT AT SPACES NOS. 31 AND 32

THE AMERICAN CARNATION SOCIETY

The American Carnation Society was organized at Philadelphia, Pa., in 1891, for the purpose of improving the carnation and advancing its popularity. From an original enrollment of 49, the membership has grown steadily until at the present time there are 380 members on the roster.

Meetings are held annually, going from city to city. In connection with each convention, an exhibition is held, for the purpose of affording opportunity to show the new varieties and comparing them with the standard sorts. The public is admitted to these exhibitions free of charge, which has proven a strong factor in popularizing the carnation. Cash prizes, Medals and Certificates of Merit are awarded at these exhibitions, the society owning dies for striking its medals. In 1913 the Fred Dorner Memorial Medal was established, a perpetual fund having been raised among the members, to defray the expenses each year. The A. C. S. also takes an active part in all the National Flower Shows, assisting in making up schedules, raising money and staging and judging the carnation exhibits.

A system of registering all new varieties has been established, which has been the means of preventing the duplication of names and of establishing priority in the naming of new varieties. Nearly 1500 varieties are listed on this register at this time. Close co-operation has also been established with the Perpetual Flowering Carnation Society of England, to prevent confusion in nomenclature between American and European raised varieties.

SECTION G

The schedule covering this section is prepared by the American Carnation Society, under whose supervision the exhibits will be staged. This section will form part of the "Jubilee Exhibition" of this Society

CARNATIONS

PRIVATE GROWERS

To be staged Friday, March 31st

Open to all varieties, seedlings, and standard sorts.

Class

300. 25 blooms, white.

First Prize, $6.00. Second Prize, $4.00.

Prizes offered by the Countess of Eulalia, Ashbourne, Pa.

301. 25 blooms, flesh pink, being those shades of flesh or salmon color.

First Prize, $6.00. Second Prize, $4.00.

SOLD BY THE SEEDSMEN OF AMERICA

Hammond's Paint & Slug Shot Works, Fishkill-on-Hudson, N. Y.
GOLD MEDAL AWARDED AT PANAMA-PACIFIC EXPOSITION

WINTER-FLOWERING SPENCER SWEET PEA

Nearly every Sweet Pea which you have seen exhibited, is originated by me.

They bloom every day in the year—in Winter as well as in Summer.

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ANT. C. ZVOLANEK

SWEET PEA RANCH

LOMPOC, CALIFORNIA

White Marsh Pulverized Limestone

Highest Quality

Is Not Caustic Cannot Burn

Immediately Available

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The best and most economical form of Lime to use.

Full information as to the most economical way to purchase.

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E. J. LAVINO & CO.

410 Bullitt Bldg. Philadelphia

SECTION G—Schedule of the American Carnation Society. Private Growers—(Continued)

Class

302. 25 blooms, light pink, being those shades of pink verging on the true pink and not lighter than Gloriosa, nor as dark as Mrs. C. W. Ward.
First Prize, $6.00. Second Prize, $4.00.

303. 25 blooms, dark pink, being those shades known as dark pink or cerise, and not lighter than Mrs. C. W. Ward.
First Prize, $6.00. Second Prize, $4.00.

304. 25 blooms, red or scarlet, to include all shades generally included in those colors.
First Prize, $6.00. Second Prize, $4.00.

305. 25 blooms, crimson, to include all shades of crimson or maroon.
First Prize, $6.00. Second Prize, $4.00.

306. 25 blooms, variegated.
First Prize, $6.00. Second Prize, $4.00,

Prizes offered by the Countess of Eulalia, Ashbourne, Pa.

307. 25 blooms, any other color, to include any color decidedly distinct from the colors specified above.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by the Countess of Eulalia, Ashbourne, Pa.

308. Vase of Carnations, not to exceed 150 blooms. One or more varieties may be used. It is intended to give the exhibitor the widest latitude in making his display. Decorative greens of any kind, including ribbons and other accessories may be used as long as the Carnations are the predominant feature. Vase to be supplied by the exhibitor. Quality of blooms, artistic arrangement and general effect will be considered in making the awards.
First Prize, $25.00; Second, $15.00; Third, $10.00.

SPECIAL

The American Carnation Society's special "Silver Jubilee Medal" will be awarded to each winner of one or more first premiums in the above classes.

SECTION H

CLASSES OPEN TO ALL

PLANTS IN FLOWER

To be staged Saturday, March 25th

320. Lilium auratum, in bloom, best 6 pots, not less than 8-in. pots, one bulb to a pot. The Michell Silver Medal.

321. Lilium magnificum, in bloom, best 6 pots, not less than 7-in. pots, one bulb to a pot. The Michell Silver Medal.

Cypress Greenhouse Stock and Tanks

Cypress

Less expensive than iron.
Breaks less glass.

Long Bars our Specialty. Ask for Catalog Number 5

THE A. T. STEARNS LUMBER COMPANY

NEPONSET, BOSTON, MASS.

WIZARD BRAND

TRADE MARK

PULVERIZED SHEEP – PULVERIZED CATTLE
SHREDDED CATTLE

MANURE

Remember the name—WIZARD BRAND. It stands for the best natural fertilizer you can put into your greenhouse or plant field soil and it is just as good for lawn, flower or vegetable garden, fruit or field crop.

Whether you cultivate 100 feet or 100 acres, you ought to know all about WIZARD BRAND. Ask for booklet with prices and freight rates on a bag or a car load.

THE PULVERIZED MANURE CO.

UNION STOCK YARDS CHICAGO, ILL.

SECTION H—Plants in Flower—(Continued)

Class

322. Lily of the Valley, in bloom, best 14-in. pan, to contain not less than 100 pips. First Prize, Silver Cup. Second Prize Michell Silver Medal.

323. Easter Lilies, best 6 plants, in 8-in. pots, one bulb to a pot.
First Prize, Michell Gold Medal. Second Prize, Silver Cup.

324. Geranium Helen Michell, in bloom, best 6 plants, in 6-in. pots, not more than one plant to a pot.
First Prize, Michell Silver Medal. Second Prize, Michell Bronze Medal.

325. Cyclamen, 6 plants, in 6-in. pots, assorted colors.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.

326. Spiræa "America," 6 plants, in 8-in. pots.
First Prize, Michell Gold Medal. Second Prize, Silver Cup.

Prizes offered by Henry F. Michell Co., Philadelphia

327. Begonias, 12 plants, consisting of one or more of the following varieties: Glory of Cincinnati, Melior, Mrs. J. A. Peterson; to be grown in not less than 6-in. pots, nor more than 8-in. pots.
First Prize, $20.00. Second Prize, $10.00.

Prizes offered by J. A. Peterson & Sons, Westwood, Cincinnati, O.

CUT FLOWERS

To be staged Saturday, March 25th

ORCHIDS

340. Display and collection of cut Orchids, each species or variety filling one vase, arranged for effect. Cut greens of any variety permissible in arranging of same.
First Prize, Gold Medal and $50.00. Second Prize, Silver medal and $35.00.

341. Flowering stem of Cattleya, any variety.
First Prize, $3.00. Second Prize, $2.00.

342. Flowering stem of Lælia, any variety.
First Prize, $3.00. Second Prize, $2.00.

Prizes offered by Henry J. Muller, Falls Rd., Philadelphia, Pa.

343. Flowering stem of Lælio-Cattleya or Hybrid Cattleya.
First Prize, $3.00. Second Prize, $2.00.

344. Calanthe, six stems, any variety.
First Prize, $3.00. Second Prize, $2.00.

345. Flowering stem Dendrobium, any variety.
First Prize, $3.00. Second Prize, $2.00.

346. Flowering spray Odontoglossum, any variety.
First Prize, $3.00. Second Prize, $2.00.

347. Flowering spray Oncidium, any variety.
First Prize, $3.00. Second Prize, $2.00.

FLORIST'S GARDEN HOSE

Our Ringmeter Garden Hose is made to especially withstand the hard usage to which a florist's hose is subjected. Don't confuse **Ringmeter** with any other hose—look for the distinctive trade mark—our name

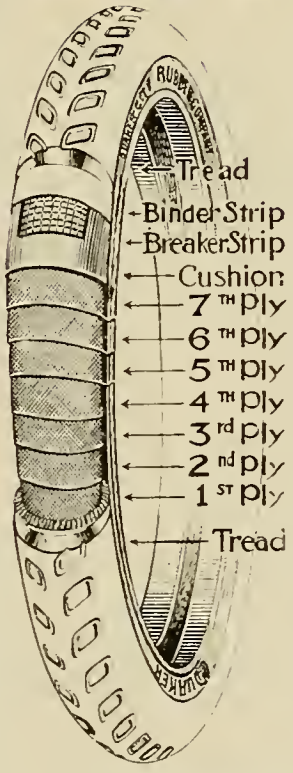
and the foot apart raised rings that help to take the wear off the cover where the hose is dragged. Furnished in continuous length up to 500 feet; does away with leaky couplings.

Also two other brands continuous length hose—**Yankee** and **Wonderful** made with smooth cover; and more than thirty brands of wrapped and multiple-ply garden hose.

TRADE MARK

QUAKER TIRES

REG. U.S. PAT. OFF.



T. T. T. (NON-SKID)
Pat. May, 1913
Reg. U.S. Patent Office
(Note how these sturdy tires are built up by hand)

Let your speedometer judge these tires—watch it reel off thousands of miles of city streets and country roads while you ride on in comfort without fear or thought of tire trouble. You will be surprised to see the excess mileage pile up, while still these tires of our wonderful **tempered** rubber retain their body, toughness, elasticity, resiliency and durability—notice how they absorb shock.

For more than three years users have been getting more milage than they paid for. Profit by their experience — put **Quaker Tires** on **Your** car. There is a Quaker dealer near you.

QUAKER CITY RUBBER CO.

MAIN OFFICE AND FACTORY

PHILADELPHIA

BRANCHES

CHICAGO PITTSBURGH NEW YORK

SECTION H—Orchids—(Continued)

Class

348. Flowering spray Phalænopsis, any variety.
First Prize, $3.00. Second Prize, $2.00.

349. Flowering spray Vanda, any variety.
First Prize, $3.00. Second Prize, $2.00.

350. Flowering spray of any Orchid, other than above.
First Prize, $3.00. Second Prize, $2.00.

MISCELLANEOUS

360. Antirrhinum, 12 spikes white.
First Prize, $3.00. Second Prize, $2.00.

361. Antirrhinum, 12 spikes yellow.
First Prize, $3.00. Second Prize, $2.00.

362. Antirrhinum, 12 spikes red. First Prize, $3.00. Second Prize, $2.00.

363. Antirrhinum, 12 spikes pink. First Prize, $3.00. Second Prize, $2.00.

364. Antirrhinum, 12 spikes, any other color.
First Prize, $3.00. Second Prize, $2.00.

365. Antirrhinum, Michell's Giant Salmon Pink, vase of 50 spikes.
First Prize, Michell Silver Medal. Second Prize, Michell Bronze Medal.

Prizes offered by Henry F. Michell Co., Philadelphia

366. Bulbous flowers, cut, in vases, not less than 10 varieties, 25 blooms of each, best collection.
First Prize, Silver Cup. Second Prize, Michell Silver Medal.

Prizes offered by Henry F. Michell Co., Philadelphia

367. Centaurea Cyanus (Cornflower). Bunch of 100.
First Prize, $3.00. Second Prize, $2.00.

368. Centaurea Imperialis, bunch of 50.
First Prize, $3.00. Second Prize, $2.00.

369. Freesia, 50 sprays.
First Prize, $5.00. Second Prize, $3.00.

370. Lilac, 12 sprays white.
First Prize, $5.00. Second Prize, $3.00.

371. Lilac, 12 sprays lavender.
First Prize, $5.00. Second Prize, $3.00.

372. Lily of the Valley, 100 sprays.
First Prize, $5.00. Second Prize, $3.00.

373. Lupines, 12 spikes.
First Prize, $3.00. Second Prize, $2.00.

374. Marguerites, yellow, bunch of 100.
First Prize, $5.00. Second Prize, $3.00.

375. Marguerites, white, bunch of 100.
First Prize, $5.00. Second Prize, $3.00.

376. Mignonette, 25 spikes.
First Prize, $5.00. Second Prize, $3.00.

Gladiolus Bulbs

can be easily and satisfactorily developed if they are vigorous and healthy. To produce such requires some knowledge, not only of soil conditions, but other necessary attention such as fertilizing, cultivating, etc.

Experience is a great teacher. We believe our experience has taught us how to produce the strongest bulbs possible and of the highest quality.

Write for **Free,** illustrated catalogue and try our stock.

—

ARTHUR COWEE
Gladiolus Specialist
MEADOWVALE FARMS BERLIN, N. Y.

Thomas Roland
Plant Specialist

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Acacias	Bougainvilleas
Amaryllis	Genistas
Ardisias	Heaths
Begonias	Hydrangeas
Crotons	Oranges
Camellias	Orchids
Cyclamen	Poinsettias
Ferns	Roses, etc.

卐 卐 卐

Nahant, Mass.

J. J. Habermehl's Sons
Florists

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Bellevue-Stratford
Ritz-Carlton
Diamond and Twenty-second Sts.

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Philadelphia

Dieges & Clust

Manufacturers of

Award Medals Ribbons
Plaques Prizes
Trophies Buttons Pins

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Articles in Ribbon, Celluloid
Brass, Silver, Gold

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20 John Street, New York

SECTION H—Miscellaneous—(Continued)

Class

377. Pansies, display of cut blooms covering 20 sq. ft.
First Prize, $15.00. Second Prize, $10.00.

378. Stocks, 12 spikes, white.
First Prize, $3.00. Second Prize, $2.00.

379. Stocks, 12 spikes, pink.
First Prize, $3.00. Second Prize, $2.00.

380. Stocks, 12 spikes, lavender.
First Prize, $3.00. Second Prize, $2.00.

381. Stocks, 12 spikes, any other color.
First Prize, $3.00. Second Prize, $2.00.

382. Violets, bunch of 100, double.
First Prize, $5.00. Second Prize, $3.00.

383. Violets, bunch of 100, single.
First Prize, $5.00. Second Prize, $3.00.

384. Wallflowers, 12 spikes.
First Prize, $3.00. Second Prize, $2.00.

Suitable recognition will be made of any flowers other than those enumerated.

OPEN TO ALL

Special. To the Philadelphia exhibitor submitting the most effective floral arrangement for use as a front cover for the Intaglio Pictorial Section of the Sunday issue of the *Public Ledger*. The award to be made by the Award Committee of the National Flower Show. Points to be considered include: Arrangement of design in the proportion of the space of the cover available for illustration, with regard to the fact that title goes at top of page outside of dimensions named here. Arrangement of colors to offer the best contrast for the purposes of photography. Arrangement to include flowers, Fern or decorative foliage and bloom of any kind. The actual size available for reproduction of the photograph resulting from this contest is 16¾ inches deep and 13½ inches wide. The design offered in competition may be of any size except that this proportion must be preserved.

Pictorial Prize offered by The Evening Ledger-Public Ledger.—Silver Plaque suitably inscribed with particulars of the award

OPEN TO PRIVATE GROWERS ONLY

390. Dinner table decoration. Accessories to be supplied by the exhibitor, and not to count in making the award.
First Prize, Gold Medal. Second Prize, Silver Medal.

OPEN TO RETAIL FLORISTS ONLY

To be staged Tuesday, March 28th

391. Dinner table decoration. Accessories to be supplied by the exhibitor, and not to count in making the award.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by the Ladies' Society of American Florists

BOOKS AND MAGAZINES FOR THE GARDEN LOVER

Doubleday, Page & Company

Publishers of

COUNTRY LIFE IN AMERICA

and

THE GARDEN MAGAZINE

Direct attention to the Special Gardening Numbers of these Foremost Periodicals to be seen at their booth.

Also a very complete Library of Garden Books.

You are cordially invited to make our Booth your headquarters.

The attendant is authorized to make some very attractive Introductory offers.

ASK ABOUT THEM

Doubleday, Page & Company

Garden City, New York

Boston Chicago

AMERICAN GLADIOLUS SOCIETY

The American Gladiolus Society was organized at Boston, Mass., May 27, 1910, with a membership of 75. The object of the Society is to stimulate interest in and promote the culture and development of the Gladiolus; to establish a standard nomenclature; to test out new varieties and to give them such recognition as they deserve; to study the diseases of Gladioli and find remedies for same; to disseminate information relating to this flower; to seek uniformity in awarding prizes at flower shows and to give one exhibition each year.

SECTION I

GLADIOLI

The Schedule covering this Section is prepared by The American Gladiolus Society and all exhibits are to be staged under its direction and supervision

SCALE OF POINTS FOR JUDGING GLADIOLI

Resistance to disease	5	Form of flower	10
Texture of flower	10	Form of spike	10
Duration of bloom	10	Stem (length and stiffness)	10
Size of bloom	10	Number of flowers on spike	15
Color of bloom	15	Vigor (aside from disease resistance)	5

GLADIOLI. FORCED BLOOMS

CLASSES OPEN TO ALL

To be staged Saturday, March 25th

Class

400. Collection of large flowering varieties, to occupy 40 sq. ft.
First Prize, $20.00. Second, $10.00. Third, $5.00.

401. Collection of named varieties (not of the Colvillei or Nanus types) to occupy 20 sq. ft.
First Prize, $15.00. Second, $10.00. Third, $5.00.

402. Collection of Colvillei and Nanus types, to occupy 20 sq. ft.
First Prize, $15.00. Second, $10.00. Third, $5.00.

403. Collection 24 spikes, not less than four large flowering varieties.
First Prize, $15.00. Second, $10.00. Third, $5.00.

404. Vase, not less than 12 spikes, one variety, large flowering.
First Prize, $10.00. Second, $5.00. Third, $3.00.

405. Single spike, any variety.
First Prize, $3.00. Second, $2.00. Third, $1.00.

406. Vase of var. Mrs. F. Pendleton, Jr., not less than 6 spikes.
Prize, $5.00 in gold.

Prize offered by Sunny Side Gladiolus Gardens, Natick, Mass.

ADVANCE MATERIALS

Ventilating Apparatus and Greenhouse Fittings—Quality Always

Deal with us because

We are a reliable concern
You get a fair and square transaction
We guarantee entire satisfaction
We have but one price to all
You get dollar for dollar value
We co-operate

Ventilating Apparatus to meet any requirements. Small or heavy lifts. We will see to it that they are operated in a satisfactory manner and the right price. Anything in Greenhouse Fittings. Write us today. It is going to pay you to get acquainted

ADVANCE CO. **RICHMOND, IND.**

THE E. G. HILL COMPANY

WHOLESALE FLORISTS

RICHMOND, INDIANA

OUR SPECIALTY—The Best Novelty Roses
High Quality Grafted Stock of Standard Varieties
The Best Grade in Own Root Stock
A Full Assortment of Florists' Varieties for the Cut Flower Trade

THE E. G. HILL COMPANY

SECTION I—Schedule of the American Gladiolus Society—Continued

Class

407. Vase of var. Dawn (Tracy), 12 spikes.
Prize 25 bulbs of var. Loveliness.

Prize offered by B. Hammond Tracy, Wenham, Mass.

408. Artistically arranged basket of blooms.
First Prize, $10.00. Second, $8.00. Third, $5.00.

409. Dinner table set for four, decorated with Gladioli blooms, any var.
First Prize, $15.00. Second, $10.00. Third, $5.00.

410. Centerpiece. First Prize, $5.00. Second, $3.00. Third, $2.00.

AMATEUR CLASSES

411. Collection of large-flowering varieties, to occupy 20 sq. ft.
First Prize, $10.00. Second Prize, $5.00.

412. Collection of Colvillei and Nanus types, to occupy 10 sq. ft.
First Prize, $10.00. Second Prize, $5.00.

413. Collection of 12 spikes, not less than four large flowering varieties.
First Prize, $10.00. Second Prize, $5.00.

414. Vase, not less than 6 spikes, one variety, large-flowering.
First Prize, $5.00. Second Prize, $3.00.

415. Single spike, any variety. First Prize, $2.00. Second Prize, $1.00.

416. Artistically arranged basket of blooms.
First Prize, $5.00. Second Prize, $3.00.

417. Dinner table, set for four, decorated with Gladiolus blooms.
First Prize, $10.00. Second Prize, $5.00.

418. Centerpiece. First Prize, $3.00. Second Prize, $2.00.

"Welcome to Philadelphia"

Stop at our exhibit and let us give you the glad hand personally.

Yours for plants, bulbs, seed.

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S. S. Skidelsky & Company
1004 Lincoln Building
Philadelphia, Pa.

STANDARD
THERMOMETERS
and THERMOSTATS

WILL PROTECT YOUR GREENHOUSE CROPS FROM DAMAGE BY SUDDEN TEMPERATURE CHANGES

The *"Standard"* is always on the job Day and Night, Winter and Summer. Watches while you sleep

STANDARD
THERMOMETER COMPANY
BOSTON, MASS.

See exhibit at the display quarters of **Michell's Seed House** at the National Flower Show

FIG. 1
A PLANTING
OF
SWEET PEAS
SUPPORTED
BY WIRES
AND BAMBOO
STAKES

FIG. 2
A VIEW
BETWEEN
ROWS OF A
PLANTING OF
SWEET PEAS
FOR
EXHIBITION
FLOWERS

AMERICAN SWEET PEA SOCIETY

The National Sweet Pea Society of America was organized at New York, July 7-8, 1909, and an exhibition held in the Museum of Natural History. The following officers were elected: President, Harry Turner, Port Washington, N. Y.; vice-president, W. H. Waite; secretary, Harry A. Bunyard, N. Y.; treasurer, William Duckham, Madison, N. J.

Objects of the Society. The objects of the Society are to encourage the cultivation and improvement of the Sweet Pea by exhibitions, field tests, conferences or in any other way the Society shall determine.

Membership. The membership of the Society consists of two classes, namely, life members and annual members. The fee for life membership is $25.00. The fee for annual membership is $2.00.

Privileges of Members. The members of the Society are entitled to such reports as are published, and free entry and admission to all exhibitions and meetings of the Society.

At the Boston convention, July 13 and 14, the name was changed to the American Sweet Pea Society.

SECTION J

SWEET PEAS

The schedule covering this section is prepared by the American Sweet Pea Society, and all exhibits are to be staged under its direction and supervision

SCALE OF POINTS TO GOVERN JUDGES

Length of Stem	25
Color	20
Size	25
Substance	15
Number of flowers on a stem	15
Total	100

CLASSES OPEN TO ALL EXCEPT AS MENTIONED

To be staged Wednesday, March 29th

Class

425. 25 sprays, pink and white.
First Prize, $3.00. Second, $2.00. Third, $1.00.

426. 25 sprays, white.
First Prize, $3.00. Second, $2.00. Third, $1.00.

427. 25 sprays, deep pink or rose.
First Prize, $3.00. Second, $2.00. Third, $1.00.

FIG 3
THREE SPRAYS
OF
SWEET PEAS
VARIETY
MRS CUTHBERTSON
PINK BICOLOR
EACH WITH
FIVE FLOWERS

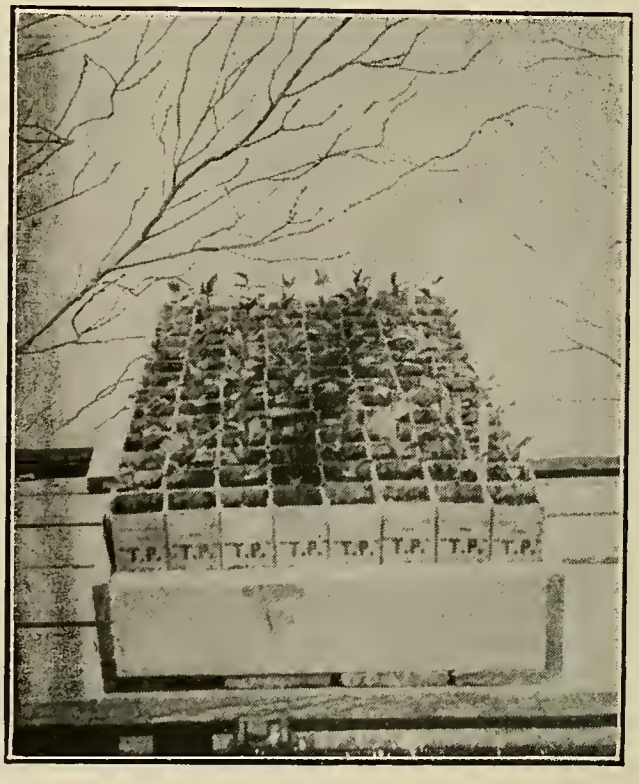


FIG. 4
FLAT OF
SWEET PEA PLANTS
IN PAPER BOXES
SUFFICIENT
TO PLANT A ROW
100 FEET IN LENGTH

SECTION J—Schedule of American Sweet Pea Society—(Continued)

Class

428. 25 sprays, light pink. First Prize, $3.00. Second, $2.00. Third, $1.00.

429. 25 sprays, cream pink or salmon.
First Prize, $3.00. Second, $2.00. Third, $1.00.

430. 25 sprays, blue or purple.
First Prize, $3.00. Second, $2.00. Third, $1.00.

431. 25 sprays, red or crimson.
First Prize, $3.00. Second, $2.00. Third, $1.00.

432. 25 sprays, light lavender.
First Prize, $3.00. Second, $2.00. Third, $1.00.

433. 25 sprays, dark lavender.
First Prize, $3.00. Second, $2.00. Third, $1.00.

434. 25 sprays, orange.
First Prize, $3.00. Second, $2.00. Third, $1.00.

435. 25 sprays, any other color.
First Prize, $3.00. Second, $2.00. Third, $1.00.

436. 50 sprays, pink and white.
First Prize, $6.00. Second, $4.00. Third, $2.00.

437. 50 sprays, white.
First Prize, $6.00. Second, $4.00. Third, $2.00.

438. 50 sprays, deep pink or rose.
First Prize, $6.00. Second, $4.00. Third, $2.00.

439. 50 sprays, light pink.
First Prize, $6.00. Second, $4.00. Third, $2.00.

440. 50 sprays, cream pink or salmon.
First Prize, $6.00. Second, $4.00. Third, $2.00.

441. 50 sprays, blue or purple.
First Prize, $6.00. Second, $4.00. Third, $2.00.

442. 50 sprays, red or crimson.
First Prize, $6.00. Second, $4.00. Third, $2.00.

443. 50 sprays, light lavender.
First Prize, $6.00. Second, $4.00. Third, $2.00.

444. 50 sprays, dark lavender.
First Prize, $6.00. Second, $4.00. Third, $2.00.

445. 50 sprays, orange.
First Prize, $6.00. Second, $4.00. Third, $2.00.

446. 50 sprays, any other color.
First Prize, $6.00. Second, $4.00. Third, $2.00.

Prizes for the Most Successful Exhibitors in the Above Color Classes Offered by W. Atlee Burpee & Co., Philadelphia

A first prize to count three points, second prize to count two points, third prize to count one point.

First Prize, W. Atlee Burpee & Company, Silver Cup, value $50.00.
Second Prize, W. Atlee Burpee & Company, Silver Cup, value $25.00.
Third Prize, W. Atlee Burpee & Company, Silver Cup, value $10.00.

J. Horace McFarland Company

Specialists in Floral Photography, Designing, Engraving and Printing for Florists, Nurserymen and Seedsmen.

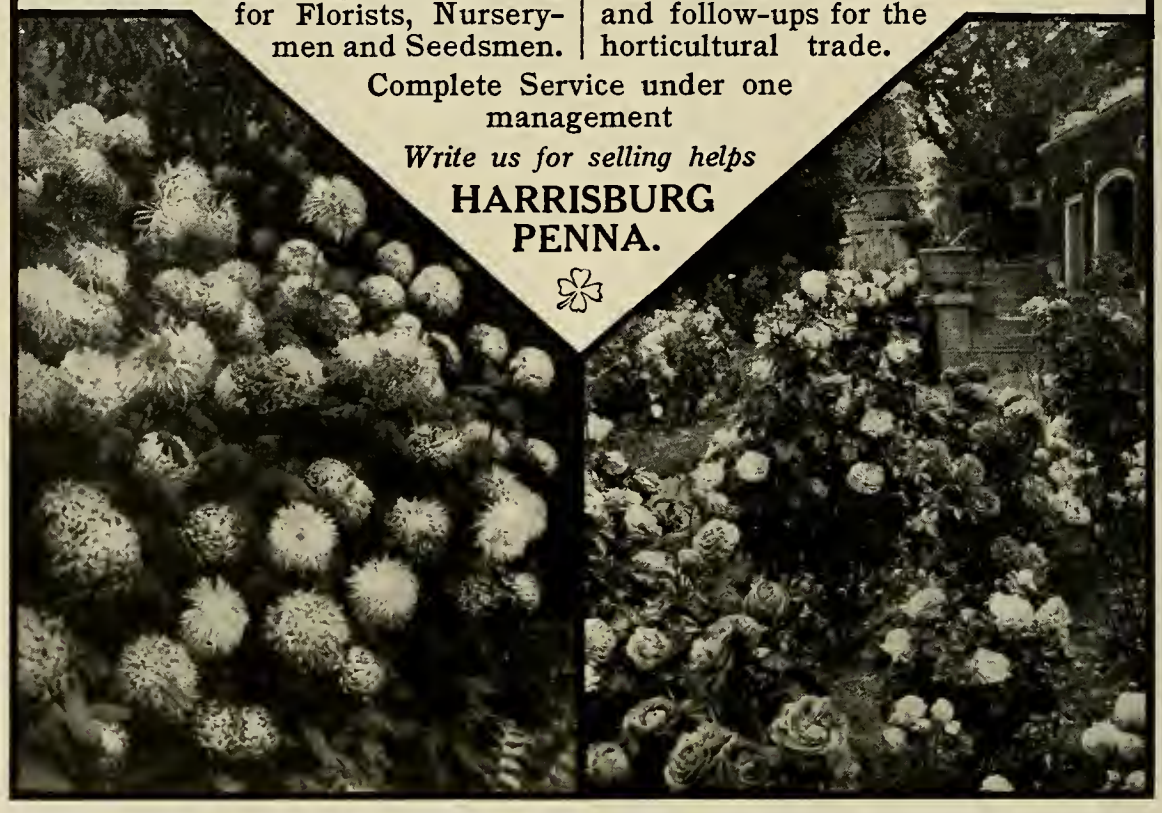
McFarland Publicity Service

Plans, writes and places Advertising; arranges catalogues, booklets and follow-ups for the horticultural trade.

Complete Service under one management

Write us for selling helps

HARRISBURG PENNA.



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Grasselli Free Nicotine

Guaranteed to contain 40% of Nicotine
Suitable for either Spraying or Fumigating

Sulphate of Nicotine 40%
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Lime Sulphur Solution

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NEW YORK BOSTON CLEVELAND
ST. LOUIS AND CHICAGO

Write for Free Booklet on

Supplee Community Service

The new plan of caring for your trees, lawn and gardens.

Insures greater efficiency and guarantees far greater economy.

Booklet mailed on request FREE to any address

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Professional Nurseryman

Bulletin Building 5900 Washington Ave.

Philadelphia

Phones—Walnut 3438; Race 1676;
Woodland 1894

SECTION J—Schedule of American Sweet Pea Society—(Continued)

Class

447. Vase of 100 sprays, one color, arranged for effect with Sweet Pea or other foliage.
First Prize, $10.00. Second, $7.00. Third, $4.00.

Cups Offered by W. Atlee Burpee & Co., Philadelphia

Value $10.00 and $5.00, will be awarded to the first and second prize winners.

448. Vase of 100 sprays, combination of two or more colors arranged for effect with Sweet Pea or other foliage.
First Prize, $10.00. Second, $7.00. Third, $4.00.

Cups Offered by W. Atlee Burpee & Co., Philadelphia

Value $10.00 and $5.00, will be awarded to the first and second prize winners.

449. Vase of 100 sprays of new Sweet Pea Sensation.
First Prize, Michell Silver Medal. Second Prize, Michell Bronze Medal.

450. Vase of 100 sprays of new Sweet Pea Rose Queen.
First Prize, Michell Silver Medal. Second Prize, Michell Bronze Medal.

451. Vase of Sweet Peas without foliage.
First Prize, Michell Gold Medal. Second Prize, Michell Silver Medal.

Prizes offered by Henry F. Michell Co., Philadelphia

452. Display of Sweet Peas, covering 100 sq. ft., quality and effective arrangement to count. Foliage plants and any foliage may be used.
First Prize, $100.00 and American Sweet Pea Society's Gold Medal. Second Prize, $50.00 and American Sweet Pea Society's Silver Medal.

453. For the best and largest collection of Winter-flowering Grandiflora and Orchid Sweet Peas, all correctly named, 6 to 15 stems to each vase, varieties introduced prior to 1916.
First Prize, $40.00. Second Prize, $20.00.

Prizes offered by Anton C. Zvolanek, Lompoc, Cal.

OPEN TO PRIVATE GARDENERS ONLY

454. 6 vases Sweet Peas, 12 sprays to vase, 6 varieties.
First Prize, $12.00. Second, $8.00. Third, $5.00.

Offer Cup, by W. Atlee Burpee & Co., Philadelphia,

RETAIL FLORISTS' EXHIBITS

455. Table Decoration of Sweet Peas.
First Prize, $30.00. Second Prize, $20.00.

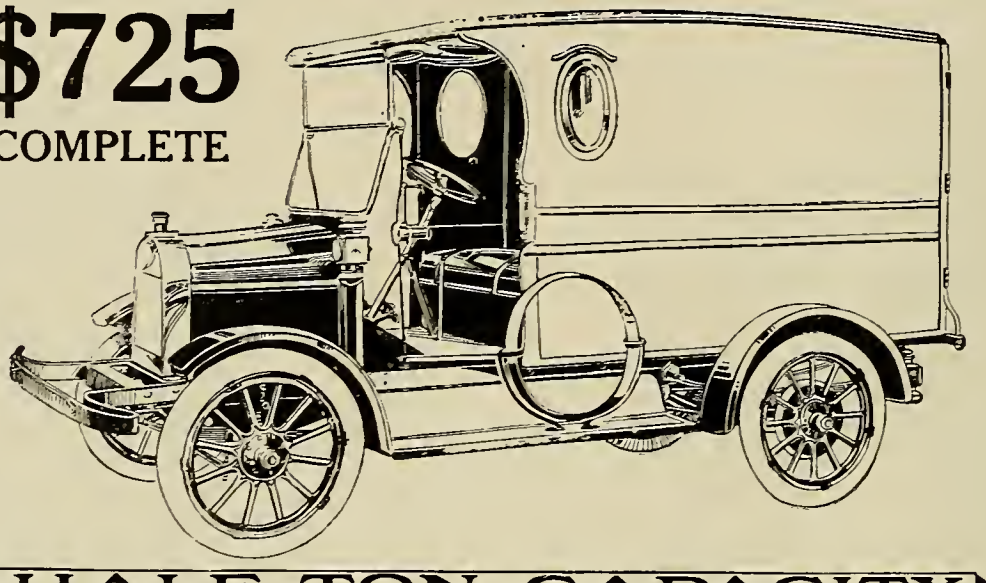
456. Basket of Sweet Peas. First Prize, $15.00. Second Prize, $10.00.

457. Bride's bouquet of Sweet Peas.
First Prize, $10.00. Second Prize, $5.00.

458. Corsage bouquet of Sweet Peas.
First Prize, $6.00. Second Prize, $4.00.

The Society's Certificate of Merit will be awarded for new varieties of marked improvement over existing varieties.

$725
COMPLETE



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Used by 22 Florists in Philadelphia

PRESTIGE, class and an apparent disregard of cost of service to your customers will bring you business in larger territory, where you can sell flowers just as easily as anyone else, if you make deliveries promptly and efficiently. Distance and large delivery area increases the number of your possible customers, and prompt and high-class service holds them.

Your delivery equipment must "*look the part*" and must "*stand up*" and deliver the goods. It must cover many miles over bad roads and stand for abusive driving so that its operation and maintenance cost will make the services possible.

Your loads are light and the unequal proportion of your delivery expenses must not be charged against a great big heavy equipment.

These are your conditions which Vim delivery cars are especially designed to meet. Ask him who owns a Vim.

Made in Philadelphia by Vim Motor Truck Co.

Sold in 442 Cities and Towns in the United States

SECTION K

PLANTS IN FLOWER

COMMERCIAL GROWERS

To be staged Saturday, March 25th

Class

500. Acacias, collection, 200 sq. ft.
First Prize, Gold Medal and $150.00. Second Prize, $100.00.

501. Acacias, 6 plants, not less than 3 varieties.
First Prize, $30.00. Second Prize, $20.00.

502. Acacias, 3 plants, 1 or more varieties.
First Prize, $25.00. Second Prize, $15.00.

503. Acacia, specimen, any variety.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by R. C. Kerr, Houston, Tex.

504. Alocasias and Aroids, 12 plants, not less than 4 varieties.
First Prize, Gold Watch, (Value $25.00). Second Prize, $15.00.

First Prize offered by Lord & Burnham Co., Philadelphia.

505. Anthurium, 6 plants, not less than 3 varieties.
First Prize, $25.00. Second Prize, $15.00.

506. Azalea Indica, collection covering 150 sq. ft., arranged for effect.
First Prize, $100.00. Second Prize, $75.00.

507. Azalea Indica 12 plants, not less than 6 varieties.
First Prize, $50.00. Second Prize, $30.00.

508. Azalea Indica, 6 plants, not less than 3 varieties.
First Prize, $25.00. Second Prize, $15.00.

509. Azalea Mollis, or Pontica, or both, 12 plants, not less than 4 colors.
First Prize, $25.00. Second Prize, $15.00.

510. Bougainvillea, 6 plants.
First Prize, $25.00. Second Prize, $15.00.

511. Cyclamen, 12 plants, not less than 8-in. pots.
First Prize, $50.00. Second Prize, $35.00

First Prize offered by Harry Balsley, Detroit

512. Cyclamen, display of greatest number of varieties shown by one exhibitor.
First Prize, $10.00.

Prize offered by A. H. Hews & Co., Inc., Cambridge, Mass.

513. Ericas, Epacris, and Boronias, collection 100 sq. ft., arranged for effect.
First Prize, $75.00. Second Prize, $50.00.

514. Ericas, 6 plants, not less than 3 varieties.
First Prize, Silver Cup, (Value $25.00). Second Prize, $15.00.

First Prize offered by Ludwig Vollers, Philadelphia

"Suggestions for Effective Planting"

¶ A catalog in which botanical arrangement is superseded for your greater convenience by listing in groups, those plants best adapted to varied uses on the quiet country place, suburban grounds or for architectural effects. This booklet will be sent at your request.

Rhododendrons, Evergreens, Trees, Shrubs and Hardy Plants

¶ "Andorra Grown" plants are of the highest quality, in wide variety of species and sizes; Large Trees and Evergreens for immediate effect are a specialty.

ANDORRA NURSERIES CHESTNUT HILL, PHILA., PA.
Wm. Warner Harper, *Proprietor* Box 210

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John Bader Company

BEN L. ELLIOTT, OWNER
1826 RIALTO STREET
M. S. PITTSBURG, PA.

WHOLESALE PLANT GROWERS

When the other fellow does not have it, write us. We sometimes do.

SECTION K—Flowering Plants. Commercial Growers—(Continued)

Class

515. Flowering and foliage, stove and greenhouse plants, arranged for effect, 200 sq. ft.
First Prize, $150.00. Second Prize, $100.00.

516. Collection of forced shrubs, herbaceous plants, arranged for effect, trees and vines permissible, 200 sq. ft.
First Prize, $100.00. Second Prize, $75.00.

517. Genistas, 6 plants, not less than 4 ft. high.
First Prize, $30.00. Second Prize, $20.00.

518. Genistas, 3 plants, not less than 3 ft. in diameter.
First Prize, $15.00. Second Prize, $10.00.

519. Genista, specimen, not less than 4 ft. in diameter.
First Prize, $10.00. Second Prize, $6.00.

520. Hydrangeas, 150 sq. ft., not less than 6 varieties, arranged for effect.
First Prize, $100.00. Second Prize, $75.00.

521. Hydrangeas, 6 plants, not less than 3 varieties.
First Prize, $25.00. Second Prize, $15.00.

522. Hydrangea, specimen, not less than 3 ft. diameter.
First Prize, $10.00. Second Prize, $6.00.

523. Lilacs, 20 plants.
First Prize, $50.00. Second Prize, $30.00.

First Prize offered by Gude Bros. Co., Washington, D. C.

524. Lilacs, 10 plants, not less than 3 varieties.
First Prize, $25.00. Second Prize, $15.00.

525. Marguerites, 6 plants, not less than 2 varieties, nor less than 36 in. spread.
First Prize, $25.00. Second Prize, $15.00.

526. Marguerites, 3 plants, not less than 36 in. spread.
First Prize, $15.00. Second Prize, $10.00.

527. Marguerite, specimen, not less than 4 ft. spread.
First Prize, $8.00. Second Prize, $5.00.

528. Pansies, bed covering 50 sq. ft.
First Prize, $10.00. Second Prize, $8.00.

529. Primula, 24 plants in variety.
First Prize, $15.00. Second Prize, $10.00.

530. Rhododendrons, collection covering 150 sq. ft., arranged for effect.
First Prize, $100.00. Second Prize, $75.00.

531. Rhododendrons, 12 plants, not less than 3 varieties, nor less than 3 ft. spread.
First Prize, $50.00. Second Prize, $30.00.

532. Rhododendrons, 6 plants, not less than 3 varieties, nor less than 3 ft. spread.
First Prize, $30.00. Second Prize, $20.00.

Pierson's
Plants for All
Places
Last summer when you walked through your friends' gardens you may have noticed some of the newer roses, some shrubs that are not generally planted, or a few blooming plants that are not found in the average garden. These unusual things made that garden distinctive, and in memory it remained with you.
Cromwell Gardens grow plants for all places—the small city lot, the grounds around the suburban home, and those that are needed for securing effective results on the large estate. Whether your planting requirements call for a single plant, or a complete planting, we can meet your demands.
Roses, Flowering Shrubs, Perennials
An intelligent selection of these important garden plants will lift your planting out of the ordinary into a class by itself. The experience gained by years of association is at your service and we will gladly help you to select the varieties that will give satisfaction to you.
Our Handbook of Garden and Greenhouse Plants will be of special value; it lists the choice Roses, Shrubs, Perennials and Bedding Plants. The book has been completely revised this year. Write for a copy.
A. N. Pierson, Inc.
Cromwell Gardens
Cromwell
Conn.

SECTION K—Flowering Plants. Commercial Growers—(Continued)

Class

533. Rhododendrons, 3 plants, not less than 3 varieties, nor less than 3 ft. spread.
First Prize, $15.00. Second Prize, $10.00.

534. Spiræa, or Astilbe, 25 plants, not less than 3 varieties.
First Prize, $25.00. Second Prize, $15.00.

535. Spiræa, or Astilbe, 12 plants.
First Prize, $15.00. Second Prize, $10.00.

536. Wistaria, specimen.
First Prize, $10.00. Second Prize, $6.00.

537. Metrosideros, 6 plants.
First Prize, $25.00. Second Prize, $15.00.

SECTION L

BULBS IN FLOWER

COMMERCIAL GROWERS

To be staged Saturday, March 25th

550. Callas, 6 plants, one or more varieties.
First Prize, $10.00. Second Prize, $6.00.

551. Lilies, 50 pots, other foliage plants may be introduced.
First Prize, $50.00. Second Prize, $30.00.

552. Lily of the Valley, 20 10-in. pans.
First Prize, $30.00. Second Prize, $20.00.

553. Narcissus, 20 10-in. pans, 6 or more varieties.
First Prize, $30.00. Second Prize, $20.00.

554. Tulips, Darwin, 20 10-in. pans, 10 or more varieties.
First Prize, $30.00. Second Prize, $20.00.

555. Tulips, Early Single, 20 10-in. pans, 10 or more varieties.
First Prize, $30.00. Second Prize, $20.00.

556. Tulips, Double, 20 10-in. pans, 10 varieties.
First Prize, $30.00. Second Prize, $20.00.

SPECIAL PRIZE FOR DEALERS AND SEEDSMEN

557. Best display of bulbs, etc., arranged as a Dutch bulb garden, covering 500 sq. ft. Appropriate accessories permitted. Quality of bloom, artistic arrangement, and general effect to be considered in making award.
First Prize, Gold Medal and $150.00. Second Prize, $100.00.

BROAD AND CHESTNUT STREETS

¶ "PHILADELPHIA'S FINEST AND LARGEST RESTAURANT."

¶ RENOWNED FROM COAST TO COAST FOR THE EXCELLENCE OF ITS CUISINE.

¶ ESPECIALLY NOTED FOR OYSTERS, SHELL FISH, AND OTHER FOODS OF THE SEA.

Hires Turner Glass Company

GLASS
FOR
GREENHOUSES

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Philadelphia, Pa.
Rochester, N. Y.
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Hosea Waterer

Highest Quality

Seeds, Bulbs, Plants

Full Line of
Fertilizers, Insecticides
Poultry Supplies
Tools, Etc.

107-109 South Seventh St.
Philadelphia

Catalog Free

SECTION M

FERNS AND SELAGINELLAS

COMMERCIAL GROWERS

To be staged Saturday, March 25th

Class

560. Cibotium Schiedei, specimen, not less than 12-in. pot or tub.
First Prize, $25.00. Second Prize, $15.00.

561. Ferns, 12 plants, not less than 6 varieties, nor less than 10-in. pots.
First Prize, $50.00. Second Prize, $30.00.

562. Nephrolepis exaltata Bostoniensis, specimen.
First Prize, $10.00. Second Prize, $6.00.

563. Nephrolepis, any other variety, specimen.
First Prize, $10.00. Second Prize, $6.00.

564. Collection of Nephrolepis in variety, covering 100 sq. ft.
First Prize, $50.00. Second Prize, $30.00.

565. Stag's Horn Fern, 3 plants in variety.
First Prize, $15.00. Second Prize, $10.00.

566. Tree Fern, specimen.
First Prize, $15.00. Second Prize, $10.00.

567. Fern, specimen, any other variety, not otherwise specified, not less than 10-in. pot or tub.
First Prize, $15.00. Second Prize, $10.00.

SECTION N

ORCHIDS—PLANTS

COMMERCIAL GROWERS

To be staged Saturday, March 25th

570. Group of plants in variety, covering 100 sq. ft. (Palms and Ferns permitted), arranged for effect.
First Prize, Gold Medal and $150.00. Second Prize, $100.00.

Prizes offered by Louis Burk, Philadelphia.

571. Twelve plants, distinct varieties.
First Prize, $50.00. Second Prize, $25.00.

572. Six plants, distinct varieties.
First Prize, $25.00. Second Prize, $15.00.

573. Brasso-Cattleya, or Brasso-Lælia, specimen.
First Prize, $15.00. Second Prize, $10.00.

574. Cattleya Mossiæ, specimen.
First Prize, $15.00. Second Prize, $10.00.

How the Eternal Fitness of Things Concerns Your Greenhouse

You are thinking of building a greenhouse. Your architect designs for it a chaste, graceful work room; perhaps like this one above. It is choice in every way, quite in accord with your idea; entirely reflective in both beauty and quality of everything else you possess.

Then comes the question of the greenhouse that will consistently harmonize with it, and at the same time meet your individual standards. Were you then to look over the rather unusual collection of photographs of U-Bar houses, here in our office, and learn of their locations and owners, we are sure you would be self convinced that the U-Bar greenhouse fully meets your standards.

If it is not possible for you tc come to our office, we will gladly bring our photographs to you. Or send you our catalog. Or both.

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U-BAR GREENHOUSES

PIERSON U-BAR CO.

One Madison Ave. **New York**

SECTION N—Orchids. Commercial Growers—(Continued)

Class

575. Cattleya Schroderæ, specimen.
First Prize, $15.00. Second Prize, $10.00.

576. Cattleya, specimen, any other variety.
First Prize, $15.00. Second Prize, $10.00.

577. Cypripediums, collection 25 plants in variety.
First Prize, $25.00. Second Prize, $15.00.

578. Cypripediums, specimen.
First Prize, $10.00. Second Prize, $6.00.

579. Dendrobium, 12 plants, in variety.
First Prize, $25.00. Second Prize, $15.00.

580. Dendrobium nobile, specimen.
First Prize, $10.00. Second Prize, $6.00.

581. Dendrobium Wardianum, specimen.
First Prize, $10.00. Second Prize, $6.00.

582. Dendrobium, specimen, any other variety.
First Prize, $10.00. Second Prize, $6.00.

583. Cattleya, Lælia, or Lælio-Cattleya Hybrid, specimen.
First Prize, $15.00. Second Prize, $10.00.

584. Lælia, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

585. Odontoglossum specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

586. Oncidium specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

587. Phalænopsis, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

588. Vanda, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

589. Hybrid Orchid, raised in America—Gold Medal.
Any variety, other than above.
First Prize, $10.00. Second Prize, $6.00.

SECTION O

PALMS AND FOLIAGE PLANTS

COMMERCIAL GROWERS

To be staged Saturday, March 25th

600. Areca lutescens, specimen.
First Prize, $25.00. Second Prize, $15.00.

601. Bay Trees, 2 plants, pyramidal.
First Prize, $25.00. Second Prize, $15.00.

Is this ASPLENIUM NIDUS AVIS
Or is it not?

The Parent Plant

was sent to us about five years ago.

What is your opinion? We especially draw your attention to this plant and invite you to inspect our stock both on exhibition at the flower show and at our greenhouses, and be satisfied that we have found a gem, and also be convinced that *The Bird's Nest Fern* can still be grown vigorously and healthy and without difficulty.

Prices Furnished on Application.

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William K. Harris
Florist

55th St. & Springfield Ave.

Philadelphia, Pa.

Take Car No. 13 on Walnut Street for the Greenhouses

Don't Fail to Visit

The Tea Garden

at the

Flower Show

Your Orders for

Atlantic City, N. J.

will be carefully filled by

GEORGE H. BERKE

1505 PACIFIC AVENUE

Member Florists' Telegraph Delivery

Every Visitor

should see the

Aquarium

Exhibit

The rare fish exhibited here are from some of the most famous collections in America

SECTION O—Palms and Foliage Plants. Commercial Growers—(Continued)

Class

602. Bay Trees, 2 plants, standard.
First Prize, $25.00. Second Prize, $15.00.

603. Bay Trees, 2 plants, columnar.
First Prize, $25.00. Second Prize, $15.00.

604. Box Trees, 2 plants, pyramidal.
First Prize, $10.00. Second Prize, $6.00.

605. Box Trees, 2 plants, standard.
First Prize, $10.00. Second Prize, $6.00.

606. Box Trees, 2 plants, bush.
First Prize, $10.00. Second Prize, $5.00.

607. Box Trees, 6 trained plants.
First Prize, $50.00. Second Prize, $30.00.

608. Cocos Australis, or its variety, specimen.
First Prize, $25.00. Second Prize, $15.00.

609. Cocos plumosus, specimen.
First Prize, $15.00. Second Prize, $10.00.

610. Crotons, group covering 100 sq. ft., arranged for effect.
First Prize, $150.00. Second Prize, $100.00.

First Prize offered by Hon. W. Freeland Kendrick, Philadelphia

611. Cycas, specimen, any variety.
First Prize, $25.00. Second Prize, $15.00.

612. Dracæna, 12 plants, 6 or more varieties.
First Prize, $25.00. Second Prize, $15.00.

613. Dracæna, specimen, any variety.
First Prize, $10.00. Second Prize, $6.00.

614. Ficus elastica, or variegata, specimen.
First Prize, $10.00. Second Prize, $6.00.

615. Ficus pandurata, specimen.
First Prize, $10.00. Second Prize, $6.00.

616. Kentia Belmoreana, specimen.
First Prize, $25.00. Second Prize, $15.00.

617. Kentia Forsteriana, specimen.
First Prize, $25.00. Second Prize, $15.00.

618. Phœnix Roebelenii, 3 plants.
First Prize, $25.00. Second Prize, $15.00.

619. Phœnix Rupicola, specimen.
First Prize, $25.00. Second Prize, $15.00.

620. Phœnix, any other variety.
First Prize, $25.00. Second Prize, $15.00.

621. Palm, specimen, other than above.
First Prize, $25.00. Second Prize, $15.00.

622. Stove and greenhouse plants, distinct, 6 plants. Exclusive of Palms.
First Prize, $50.00. Second Prize, $25.00.

For Your Lawn and Garden Use Alphano—The Odorless, Weedless All-In-One Fertility Producer

BRIEFLY and pointedly—use it, because it contains all the plant foods; all the vitalizing elements; and all the beneficial bacteria necessary for a perfectly balanced, fertility producing soil ration. To say it still briefer: it is an *all-in-one* soil builder.

It is a combination of both the long and short result producers. Let us explain this statement. The readily soluble chemical foods it contains, such as phosphate and potash, act as an immediate growth stimulant. The gradual liberation of its humus nitrogen, continues to supply for a long time, the most vital elements in plant growth.

The teeming billions of nitrogen gathering and soil mineral digesting bacteria, which government analysis proves it so liberally contains; still further continue fertility production.

Its being odorless; its freedom from weed seeds; its velvety black finely granulated condition; are all still further facts in its favor.

Put it on your lawn and rake in. Dig it around your shrubs, flowers and vegetables. Use it every place and any place where you want richer soil and better results.

Send for Booklet—Lawns and Golf Courses—Their Care and Fare.

5 BAGS for $5

$12 a ton in bags.
$10 a ton in bags by carload.
$8 a ton in bulk by carload.

Alphano Humus Co.

Established 1905

17-M Battery Place **New York City, N. Y.**

SECTION O—Palms and Foliage Plants. Commercial Growers—(Continued)

Class

623. Yew Trees, 6 trained plants.
First Prize, $50.00. Second Prize, $25.00.

624. Forced shrubs and herbaceous plants, collection covering 200 sq. ft. (trees and vines permissible), arranged for effect.
First Prize, $150.00. Second Prize, $100.00.

625. Conifers, collection of 25 plants, not less than 12 varieties, in pots or tubs.
First Prize, $75.00. Second Prize, $50.00.

626. Japan Maple in foliage, 6 plants, not less than 3 feet high.
First Prize, $25.00. Second Prize, $15.00.

SECTION P

ROSES

The schedule covering this section is prepared by the American Rose Society and includes the annual exhibition of this Society

THE AMERICAN ROSE SOCIETY'S SCALE OF POINTS

All exhibits of cut flowers will be judged by points in accordance with the following official scales:

	Competitive Classes	Novelties for Certificates, etc.
Size	15	10
Color	20	20
Stem	20	15
Form	15	15
Substance	15	10
Foliage	15	15
Fragrance (for Novelties Only)		5
Distinctiveness		10
	100	100

RULES FOR JUDGING GROUPS OF ROSE PLANTS

Size of Group or Collection	20
Distinctiveness	15
Cultural Perfection	20
Number of Varieties	20
Arrangement and Effect	25
	100

DREER'S
Seeds, Plants and Bulbs

A BORDER OF DREER'S HARDY PERENNIALS

OUR SEED DEPARTMENTS offer the very choicest **Vegetable Seeds, Lawn Grass Seeds, Agricultural Seeds, Flower Seeds.**

OUR PLANT AND BULB DEPARTMENTS cover over 300 acres and 10 acres of greenhouses. Among the many specialties which we grow in vast quantities are **Cannas, Dahlias, Ferns, Gladiolus, Palms, Roses, Hardy Perennials, Shrubs, Hardy Climbers, Small Fruits, Water Lilies** and **Aquatics, etc.**

DREER'S GARDEN BOOK fully describes all of the above and is Free on application.

DO NOT FAIL TO VISIT OUR LARGE AND INTERESTING EXHIBIT AT THE NATIONAL FLOWER SHOW

HENRY A. DREER 714-716 Chestnut Street PHILADELPHIA, PA.

DREER'S
Select Two-year-old Roses

HYBRID-TEA ROSE

Specially Prepared for the Amateur and will give Immediate Effect

Stock either grown at our own Nurseries, or by noted European Specialists, plants potted and stored in cold greenhouses and cold frames during the winter. Treated in this manner they develop in a natural way and are superior to plants which have been forced in high temperature, or carried over in dormant state and are sure to give immediate results.

We grow the popular Hardy Hybrid-Tea Rose in large variety, listing 239 of the most select sorts, also choice Hybrid Perpetual, Hardy Climbing Roses, etc., all of which are fully described in **Dreer's Garden Book,** together with valuable cultural information. A copy free on application.

DO NOT FAIL TO VISIT OUR LARGE AND INTERESTING EXHIBIT AT THE NATIONAL FLOWER SHOW

HENRY A. DREER 714-716 Chestnut Street PHILADELPHIA, PA.

SECTION P—Schedule of the American Rose Society—(Continued)

SINGLE SPECIMEN ROSE PLANTS

Size of Plants	20
Cultural Perfection	25
Floriferousness	20
Foliage	15
Quality of Bloom	10
Color of Bloom	10
	100

ROSES IN POTS AND TUBS

COMMERCIAL GROWERS

To be staged Saturday, March 25th

Class

650. Best display of Rose plants, arranged as a Rose garden, any or all classes, covering 500 sq. ft. Appropriate accessories permitted. Artistic arrangement and general effect to be considered in making reward.

First Prize, $500.00. Second Prize, $400.00. Third Prize, $300.00.

The first prize is offered by Philip Breitmeyer, Detroit, Mich.; Thos. Roland, Nahant, Mass.; Joseph Heacock, Wyncote, Pa.; Robert Scott & Son, Sharon Hill, Pa.; Geo. Burton, Chestnut Hill, Pa.; S. Mortensen, Southampton, Pa.; Aug. Doemling, Lansdowne, Pa.; Conard & Jones Co., West Grove, Pa.; C. H. Totty, Madison, N. J.; L. J. Reuter & Son, Westerly, R. I.; Robt. Simpson, Clifton, N. J., and Harry O. May, Summit, N. J.

The second prize is offered by A. Farenwald, Roslyn, Pa.; The United States Cut Flower Co., Elmira, N. Y.; Emil Buettner, Park Ridge, Ill.; J. H. Dunlop, Toronto, Can.; Eugene Dailledouze, Brooklyn, N. Y.; Michigan Cut Flower Exchange, Detroit, Mich.; Dingee & Conard, West Grove, Pa.; Patrick Welch, Boston, Mass.; Martin & Forbes, Portland, Ore.; M. Franklin, Yardley, Pa.; Pulverized Manure Co., Chicago, Ill.; Lord & Burnham Co., Irvington, N. Y.; Pittsburgh Cut Flower Co., Pittsburgh, Pa., and others.

The third prize is offered by A. N. Pierson, Inc., Cromwell, Conn, and others.

651. Best display of Rose plants, any or all classes, arranged for effect. To cover 200 sq. ft. of space.
First Prize, $200.00. Second Prize, $100.00.

652. 6 Climbing or Rambler Roses, 3 or more varieties.
First Prize, $75.00. Second Prize, $40.00.

653. Dorothy Perkins, Lady Gay or Minnehaha, specimen.
First Prize, $10.00. Second Prize, $6.00.

Prizes offered by Jackson & Perkins Co., Newark, N. Y.

654. Tausendschon, specimen. First Prize, $10.00. Second Prize, $6.00.

655. Hiawatha, specimen. First Prize, $10.00. Second Prize, $6.00.

Prizes offered by Jackson & Perkins Co., Newark, N. Y.

656. Excelsa or Crimson Rambler, specimen.
First Prize, $10.00. Second Prize, $6.00.

Prizes offered by Jackson & Perkins Co., Newark, N. Y.

SECTION P—Schedule of the American Rose Society. Commercial Growers—(Continued)

Class

657. Mrs. M. H. Walsh or White Dorothy Perkins, specimen.
First Prize, $10.00. Second Prize, $6.00.

658. Any other single-flowered variety, specimen.
First Prize, $10.00. Second Prize, $6.00.

659. Any other double or semi-doubled flowered variety, specimen.
First Prize, $10.00. Second Prize, $6.00.

660. 25 plants Hybrid Perpetuals; not less than 6 varieties.
First Prize, $50.00. Second Prize, $30.00.

661. 12 plants Hybrid Perpetuals; not less than 3 varieties.
First Prize, $25.00. Second Prize, $15.00.

First Prize offered by H. G. Berning, St. Louis, Mo.

662. 25 plants Dwarf Polyanthas, not less than 6 varieties.
First Prize, the Kroeschell Gold Medal, (Value $50.00). Second Prize, $20.00.

First Prize offered by Kroeschell Bros. Co., Chicago, Ill.

663. 12 plants Dwarf Polyanthas, not less than 3 varieties.
First Prize, $15.00. Second Prize, $10.00.

664. Best new variety not in commerce.

American Rose Society Silver Medal

665. 25 Rose plants in 6-in. pots, not less than 6 varieties, suitable for garden planting.
First Prize, $25.00. Second Prize, $15.00.

First Prize offered by W. H. Elliott, Brighton, Mass.

CUT ROSES

To be staged Monday, March 27th

All Roses with more than two growths (one pinch) will be disqualified, excepting in the classes calling for displays, and for 100 or more blooms in a vase, when two pinches will be allowed.

670. 100 American Beauty.
First Prize, $80.00. Second, $60.00. Third, $40.00.

First Prize offered by Pennock Bros., Philadelphia

671. 50 American Beauty.
First Prize, $40.00. Second, $30.00. Third, $20.00.

672. 100 Mrs. Charles Russell.
First Prize, $50.00. Second, $30.00. Third, $20.00.

673. 50 Mrs. Charles Russell.
First Prize, Silver Cup, (Value $25.00). Second, $15.00. Third $10.00.

First Prize, Silver Cup, offered by the Waban Rose Conservatories, Natick, Mass.

SECTION P—Schedule of the American Rose Society. Commercial Growers—(Continued)

Class

674. 100 Mrs. George Shawyer. First Prize, Silver Cup, (Value $25.00).

Offered by The Florex Gardens, North Wales, Pa.

675. 50 Killarney Brilliant.
First Prize, $20.00. Second Prize, $10.00.

676. 50 Killarney Queen.
First Prize, $20.00. Second Prize, $10.00.

677. 50 Killarney, or Double Pink Killarney.
First Prize, $20.00. Second Prize, $10.00.

678. 50 White Killarney, or any Killarney white sport.
First Prize, $20.00. Second Prize, $10.00.

679. 50 Hoosier Beauty.
First Prize, $20.00. Second Prize, $10.00.

680. 50 Prince d'Arenberg.
First Prize, $20.00. Second Prize, $10.00.

681. 50 Hadley.
First Prize, $20.00. Second Prize, $10.00.

Prizes offered by S. S. Pennock-Meehan Co., Philadelphia

682. 50 Mrs. George Shawyer.
First Prize, $20.00. Second Prize, $10.00.

683. 50 Lady Alice Stanley.
First Prize, $20.00. Second Prize, $10.00.

684. 50 Radiance.
First Prize, $20.00. Second Prize, $10.00.

685. 50 My Maryland.
First Prize, $20.00. Second Prize, $10.00.

686. 50 Jonkheer J. L. Mock.
First Prize, $20.00. Second Prize, $10.00.

687. 50 Antoine Rivoire.
First Prize, $20.00. Second Prize, $10.00.

688. 50 Ophelia.
First Prize, $20.00. Second Prize, $10.00.

Prizes offered by E. G. Hill Co., Richmond, Ind.

689. 50 Sunburst.
First Prize, $20.00. Second Prize, $10.00.

690. 50 Mrs. Aaron Ward.
First Prize, $20.00. Second Prize, $10.00.

691. 50 Francis Scott Key.
First Prize, $20.00. Second Prize, $10.00.

692. 50 Any other disseminated red.
First Prize, Gold Watch, (Value $25.00). Second Prize, $10.00.

First Prize offered by Lord & Burnham Co., Philadelphia

SECTION P—Schedule of the American Rose Society. Commercial Growers—(Continued)

Class

693. 50 Any other disseminated pink.
First Prize, Greenhouse Material (Value $25.00). Second Prize, $10.00.

First Prize offered by The Advance Co., Richmond, Ind.

694. 50 Blooms of any new Rose not in commerce.
Prize, $25.00.

Prize offered by The Leo Niessen Co., Philadelphia

695. 25 American Beauty.
First Prize, $20.00. Second, $10.00. Third, $5.00.

696. 25 Mrs. Charles Russell.
First Prize, $10.00. Second Prize, $5.00.

697. 25 Killarney Brilliant.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by Henry Penn, Boston, Mass.

698. 25 Killarney Queen.
First Prize, $10.00. Second Prize, $5.00.

699. 25 Killarney, or Double Pink Killarney.
First Prize, $10.00. Second Prize, $5.00.

700. 25 White Killarney, or any Killarney white sport.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by Mann & Brown, Richmond, Va.

701. 25 Prince d'Arenberg.
First Prize, $10.00. Second Prize, $5.00.

702. 25 Hadley.
First Prize, $10.00. Second Prize, $5.00.

Prizes offered by Gude Bros. Co., Washington, D. C.

703. 25 Mrs. George Shawyer.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by W. L. Rock, Kansas City, Mo.

704. 25 Lady Alice Stanley.
First Prize, $10.00. Second Prize, $5.00.

705. 25 Radiance.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by Gude Bros. Co., Washington, D. C.

706. 25 My Maryland.
First Prize, $10.00. Second Prize, $5.00.

707. 25 Jonkheer J. L. Mock.
First Prize, $10.00. Second Prize, $5.00.

708. 25 Antoine Rivoire.
First Prize, $10.00. Second Prize, $5.00.

SECTION P—Schedule of the American Rose Society. Commercial Growers—(Continued)

Class

709. 25 Ophelia. First Prize, $10.00. Second Prize, $5.00.

First Prize offered by Hess & Swoboda, Omaha, Neb.

710. 25 Sunburst.
First Prize, $10.00. Second Prize, $5.00.

711. 25 Mrs. Aaron Ward.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by S. S. Skidelsky, Philadelphia

712. 25 Any other disseminated white.
First Prize, $10.00. Second Prize, $5.00.

713. 25 Any other disseminated yellow.
First Prize, $10.00. Second Prize, $5.00.

714. 25 Any other disseminated red.
First Prize, $10.00. Second Prize, $5.00.

715. 25 Any other disseminated pink.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by Edw. Campbell, Philadelphia

716. 25 Francis Scott Key.
First Prize, $10.00. Second Prize, $5.00.

First Prize offered by John Cook, Baltimore, Md.

717. 50 sprays Cecile Brunner.
First Prize, $5.00. Second Prize, $3.00.

718. 50 sprays George Elger.
First Prize, $5.00. Second Prize, $3.00.

719. 50 sprays any other Polyantha.
First Prize, $5.00. Second Prize, $3.00.

720. 50 sprays Single Roses.
First Prize, $5.00. Second Prize, $3.00.

Prizes offered by Henry F. Michell Co., Philadelphia, Pa.

721. 25 American Beauty.
Prize, the Michell Gold Medal.

722. 25 Mrs. Charles Russell.
Prize, the Michell Gold Medal.

723. 25 Any red Rose.
Prize, the Michell Gold Medal.

Sweepstake prize for best vase of 50 Roses of any exhibit entered.
Prize, Silver Cup, (Valued at $25.00).

Prize offered by Edward Reid, Philadelphia, Pa.

Sweepstake prize for best vase of 25 Roses of any exhibit entered.

Prize offered by A. H. Hews & Co., Cambridge, Mass.

SECTION P—Schedule of the American Rose Society. Commercial Growers—(Continued)

AMERICAN ROSE SOCIETY MEDALS AND CERTIFICATES FOR NOVELTIES

A gold medal is offered for the best new Rose not yet disseminated, whether of domestic or foreign origin; exhibits are to be judged by the official scale of the Society, and no gold medal is to be awarded to any Rose scoring less than 95 points.

A silver medal is offered at the same time, and under the same conditions, for a novelty scoring not less than 85 points.

A certificate of merit is to be awarded to all novelties scoring 80 points.

RETAIL FLORISTS' EXHIBITS

To be staged Thursday, March 30th

The most artistic display, with such accessories as the exhibitor may desire.

Class

724. Corsage bouquet of Roses.
First Prize, Silver Cup, (Value $15.00). Second Prize, $10.00.
First Prize offered by Charles Henry Fox, Philadelphia, Pa.

725. Bridal bouquet of Roses. First Prize, $25.00. Second Prize, $15.00.
First Prize offered by Geo. B. Hart, Rochester, N. Y.

726. Basket bouquet of Roses. First Prize, $25.00. Second Prize, $15.00.
First Prize offered by H. Bayersdorfer & Co., Philadelphia, Pa.

727. Table Decoration of Roses. First Prize, $50.00. Second Prize, $25.00
First Prize offered by M. Rice Co., Philadelphia, Pa.

728. Mantel Decoration of Roses.
First Prize, $50.00. Second Prize, $25.00.

729. Best bouquet of Miniature Roses.
Prize, Leather Traveling Bag, (Value $15.00).
Offered by M. Heller, South Park Floral Co., New Castle, Ind.

BEST DISPLAY OF CUT ROSES

COMMERCIAL GROWERS

To be staged Thursday, March 30th

730. Best display of cut Roses covering 200 sq. ft. of space, and to contain not less than 500 nor more than 1000 blooms. Quality of bloom, artistic arrangement and general effect to be considered in making awards. Decorative green of any kind, including plants, permitted.
First Prize, $250. Second, $150. Third, $100.

SECTION Q

CARNATIONS

The schedule covering this section is prepared by The American Carnation Society and the exhibits are under its supervision, this being the "Jubilee Exhibition" of the Society

THE AMERICAN CARNATION SOCIETY'S SCALE OF POINTS

This scale will be employed in judging new varieties, and in all cases where competition is close, to arrive at a decision.

Color	25	Substance	15
Size	20	Form	10
Calyx	5	Fragance	5
Stem	20		
		Total	100

CARNATIONS

COMMERCIAL GROWERS

To be staged Tuesday, March 28th

Open to all varieties, seedlings and standard sorts.

Class

735. Vase 100 blooms white.

First Prize, $15.00. Second Prize, $10.00.

Prizes offered by The Leo Niessen Co., Philadelphia

736. Vase 100 blooms flesh pink, being those shades of flesh or salmon color.

First Prize, $15.00. Second Prize, $10.00.

Prizes offered by J. F. Ammann, Edwardsville, Ill.

737. Vase 100 blooms light pink, being those shades of pink verging on the true pink, not lighter than Gloriosa and not as dark as Mrs. C. W. Ward.

First Prize, $15.00. Second Prize, $10.00.

Prizes offered by W. J. & M. S. Vesey, Fort Wayne, Ind.

738. Vase 100 blooms dark pink, being those shades known as dark pink or cerise and not lighter than Mrs. C. W. Ward.

First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Cottage Gardens Co., Queens, N. Y.

739. Vase 100 blooms red or scarlet, to include all shades generally included in those colors.

First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Cottage Gardens Co., Queens, N. Y.

SECTION Q—Schedule of the American Carnation Society. Commercial Growers—(Continued)

Class

740. Vase 100 blooms crimson, to include all shades known as crimson or maroon. First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Wm. Nicholson, Framingham, Mass.

741. Vase 100 blooms variegated.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Baur & Steinkamp, Indianapolis, Ind.

742. Vase 100 blooms any other color, to include any color decidedly distinct from those specified above.
First Prize, $15.00. Second Prize, $10.00.

Prizes offered by Bassett & Washburn, Chicago, Ill.

SWEEPSTAKES

The American Carnation Society's silver medal will be awarded to the best vase shown in the above section. The bronze medal will be awarded to the second best vase shown.

Open to all varieties disseminated prior to July, 1915. Fifty blooms to be shown of each variety.

743. White Wonder. First Prize, $6.00. Second Prize, $4.00.

Prizes offered by F. Dorner & Sons Co., La Fayette, Ind.

744. Any other white.
First Prize, $6.00. Second Prize, $4.00.

745. Enchantress Supreme.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by F. Dorner & Sons Co., La Fayette, Ind.

746. Any other flesh pink.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by F. Dorner & Sons Co., La Fayette, Ind.

747. Gloriosa.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by F. Dorner & Sons Co., La Fayette, Ind.

748. Any other light pink.
First Prize, $6.00. Second Prize, $4.00.

749. Mrs. C. W. Ward.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by Fred H. Lemon, Richmond, Ind.

750. Any other dark pink.
First Prize, $6.00. Second Prize, $4.00.

Prizes offered by Guttman & Raynor, New York

SECTION Q—Schedule of the American Carnation Society. Commercial Growers—(Continued)

Class

751. Beacon. First Prize, $6.00. Second Prize, $4.00.

752. Any other scarlet.
First Prize, $6.00. Second Prize, $4.00.

753. Pocahontas.
First Prize, $6.00. Second Prize, $4.00.

754. Any other crimson.
First Prize, $6.00. Second Prize, $4.00.

First Prize offered by F. Lautenschlager, Chicago, Ill.

755. Benora.
First Prize, $6.00. Second Prize, $4.00.

756. Any other white variegated.
First Prize, $6.00. Second Prize, $4.00.

757. Any yellow or yellow variegated.
First Prize, $6.00. Second Prize, $4.00.

758. Any other color, decidedly distinct from the colors specified above.
First Prize, $6.00. Second Prize, $4.00.

759. 12 largest Carnation blooms, one or more varieties, to be determined by the Kroeschell Measuring Card.
Prize, the Kroeschell Gold Medal (Valued at $50.00).

Offered by Kroeschell Bros. Co., Chicago, Ill.

To be staged Friday, March 31st

760. Best display of Carnation blooms, covering 150 sq. ft. of space and to contain not less than 1000, nor more than 1500 blooms. Decorative greens, including plants, will be permitted. Quality of blooms, artistic arrangement and general effect will be considered in making the awards.
First Prize, $200.00. Second, $150.00. Third, $100.00.

First prize offered by E. G. Hill Co., Richmond, Ind.; W. E. Lenk, Halifax, Mass.; "Strouts," Biddeford, Me.; S. S. Skidelsky & Co., Philadelphia, Pa.; Ernest Saunders, Lewiston, Me.; S. J. Goddard, Framingham, Mass.; J. D. Thompson Carnation Co., Joliet, Ill.; and Peter Fisher, Ellis, Mass.

Second prize offered by Fred. Burki, Gibsonia, Pa., and others.

761. Best vase of Carnations, not to exceed 300 blooms. One or more varieties may be used. It is intended to give the exhibitor the widest latitude in making his display. Decorative greens of any kind including ribbons, or any other accessories may be used as long as the Carnations are the predominant feature. Vase to be supplied by the exhibitor. Quality of blooms, artistic arrangement and general effect to be considered in making the awards.
First Prize, $50.00. Second, $35.00. Third, $15.00.

First Prize offered by Eugene Dailledouze, Brooklyn, N. Y.

SECTION Q—Schedule of the American Carnation Society. Commercial Growers—(Continued)

SPECIAL

The American Carnation Society's special "Silver Jubilee" medal will be awarded to each winner of one or more first premiums in the foregoing classes.

RETAIL FLORISTS' EXHIBITS

To be staged Friday, March 31st

TABLE DECORATIONS

Class

762. Carnations shall be the principal flower used, but any kind of flowers or plants, cut or in pots, may be used as accessories. Color harmony, adaptability, quality of stock, detail and general effect shall each carry equal importance in making the awards. Tables will be supplied by the management, accessories by the exhibitor.

$50.00 will be awarded to each table scoring not less than 90 points.
$40.00 will be awarded to each table scoring not less than 80 points.
$30.00 will be awarded to each table scoring not less than 70 points.

Only six entries will be accepted in this class.

BASKET ARRANGEMENTS

763. Carnations shall be the principal flower used, but any kind of cut flower or foliage may be used as accessories, in the Retailers' Sections, and only the regulation display cards as prescribed by the management will be permitted on the displays.

$25.00 will be awarded to each arrangement scoring not less than 90 points.
$20.00 will be awarded to each arrangement scoring not less than 80 points.
$15.00 will be awarded to each arrangement scoring not less than 70 points.

Only six entries will be accepted in this class.

Immediately following the judging, the secretary will remove the entry cards from all the exhibits in classes in the Retailers' Section, and only the regulation display cards as prescribed by the management will be permitted on the displays.

SECTION R

AQUATICS

OPEN TO ALL

To be staged Saturday, March 25th

Special. Best display of Aquatics, to cover 100 sq. ft. Exhibitors to furnish all accessories.

Prize: The Foley Silver Cup, (Value $50.00).

Prize offered by the Foley Manufacturing Co., Chicago, Ill.
Grand Prize S. A. F. O. H. Gold Medal

SECTION R—Aquarium Exhibit—(Continued)

AQUARIUM EXHIBIT

To be staged Saturday, March 25th

COMMITTEE

FRANKLIN BARRETT, *Chairman*

WILLIAM T. INNES, JR. HIRAM PARKER HARRY PETERS
DR. HERMAN BURGIN ROBERT SCHAEFFER WILLIAM PECK
WALTER LEE ROSENBERGER

PRIZES

Grand Prize. Largest and best exhibit.
Silver Cup. Most artistically arranged aquarium.
Ribbon. 2d artistically arranged aquarium.
Ribbon. 3d artistically arranged aquarium.
Silver Cup. Most artistically arranged terrarium.
Ribbon. 2d artistically arranged terrarium.
Ribbon. 3d artistically arranged terrarium.

Class

LION HEADS

800. Silver Cup. Best Lion Head, Scaled.
Ribbon. 2d Lion Head, Scaled.
Ribbon. 3d Lion Head, Scaled.

801. Silver Cup. Best Lion Head, Scaleless.
Ribbon. 2d Lion Head, Scaleless.
Ribbon. 3d Lion Head, Scaleless.

ORANDAS

802. Silver Cup. Best Oranda, Scaled.
Ribbon. 2d Oranda, Scaled.
Ribbon. 3d Oranda, Scaled.

803. Silver Cup. Best Oranda, Scaleless.
Ribbon. 2d Oranda, Scaleless.
Ribbon. 3d Oranda, Scaleless.

CELESTIAL TELESCOPES

804. Silver Cup. Best Celestial, Scaled.
Ribbon. 2d Celestial, Scaled.
Ribbon. 3d Celestial, Scaled.

TELESCOPES

805. Silver Cup. Best Scaled Telescope, Veiltail.
Ribbon. 2d Scaled Telescope, Veiltail.
Ribbon. 3d Scaled Telescope, Veiltail.

SECTION R—Aquarium Exhibit—(Continued)

Class

TELESCOPES—(Continued)

806. Silver Cup. Best Scaleless Telescope, Veiltail.
Ribbon. 2d Scaleless Telescope, Veiltail.
Ribbon. 3d Scaleless Telescope, Veiltail.

807. Silver Cup. Best Black Telescope, Veiltail.
Ribbon. 2d Black Telescope, Veiltail.
Ribbon. 3d Black Telescope, Veiltail.

808. Silver Cup. Best Calico Telescope, Veiltail.
Ribbon. 2d Calico Telescope, Veiltail.
Ribbon. 3d Calico Telescope, Veiltail.

809. Silver Cup. Best Blue Telescope, Veiltail.
Ribbon. 2d Blue Telescope, Veiltail.
Ribbon. 3d Blue Telescope, Veiltail.

810. Silver Cup. Best Scaled Telescope, Ribbontail.
Ribbon. 2d Scaled Telescope, Ribbontail.
Ribbon. 3d Scaled Telescope, Ribbontail.

811. Silver Cup. Best Scaleless Telescope, Ribbontail.
Ribbon. 2d Scaleless Telescope, Ribbontail.
Ribbon. 3d Scaleless Telescope, Ribbontail.

812. Silver Cup. Best Black Telescope, Ribbontail.
Ribbon. 2d Black Telescope, Ribbontail.
Ribbon. 3d Black Telescope, Ribbontail.

813. Silver Cup. Best Calico Telescope, Ribbontail.
Ribbon. 2d Calico Telescope, Ribbontail.
Ribbon. 3d Calico Telescope, Ribbontail.

814. Silver Cup. Best Blue Telescope, Ribbontail.
Ribbon. 2d Blue Telescope, Ribbontail
Ribbon. 3d Blue Telescope, Ribbontail.

JAPS

815. Silver Cup. Best Scaled Jap, Veiltail.
Ribbon. 2d Scaled Jap, Veiltail.
Ribbon. 3d Scaled Jap, Veiltail.

816. Silver Cup. Best Scaleless Jap, Veiltail.
Ribbon. 2d Scaleless Jap, Veiltail.
Ribbon. 3d Scaleless Jap, Veiltail.

817. Silver Cup. Best Calico Jap, Veiltail.
Ribbon. 2d Calico Jap, Veiltail.
Ribbon. 3d Calico Jap, Veiltail.

818. Silver Cup. Best Blue Jap, Veiltail.
Ribbon. 2d Blue Jap, Veiltail.
Ribbon. 3d Blue Jap, Veiltail.

819. Silver Cup. Best Scaled Jap, Ribbontail.
Ribbon. 2d Scaled Jap, Ribbontail.
Ribbon. 3d Scaled Jap, Ribbontail.

SECTION R—Aquarium Exhibit—(Continued)

Class

JAPS—(Continued)

820. Silver Cup. Best Scaleless Jap, Ribbontail.
Ribbon. 2d Scaleless Jap, Ribbontail.
Ribbon. 3d Scaleless Jap, Ribbontail.

821. Silver Cup. Best Calico Jap, Ribbontail.
Ribbon. 2d Calico Jap, Ribbontail.
Ribbon. 3d Calico Jap, Ribbontail.

822. Silver Cup. Best Blue Jap, Ribbontail.
Ribbon. 2d Blue Jap, Ribbontail.
Ribbon. 3d Blue Jap, Ribbontail.

NYMPHS

823. Silver Cup. Best Scaled Nymph, Veiltail.
Ribbon. 2d Scaled Nymph, Veiltail.
Ribbon. 3d Scaled Nymph, Veiltail.

824. Silver Cup. Best Scaleless Nymph, Veiltail.
Ribbon. 2d Scaleless Nymph, Veiltail.
Ribbon. 3d Scaleless Nymph, Veiltail.

825. Silver Cup. Best Calico Nymph, Veiltail.
Ribbon. 2d Calico Nymph, Veiltail.
Ribbon. 3d Calico Nymph, Veiltail.

826. Silver Cup. Best Blue Nymph, Veiltail.
Ribbon. 2d Blue Nymph, Veiltail.
Ribbon. 3d Blue Nymph, Veiltail.

827. Silver Cup. Best Scaled Nymph, Ribbontail.
Ribbon. 2d Scaled Nymph, Ribbontail.
Ribbon. 3d Scaled Nymph, Ribbontail.

828. Silver Cup. Best Scaleless Nymph, Ribbontail.
Ribbon. 2d Scaleless Nymph, Ribbontail.
Ribbon. 3d Scaleless Nymph, Ribbontail.

829. Silver Cup. Best Calico Nymph, Ribbontail.
Ribbon. 2d Calico Nymph, Ribbontail.
Ribbon. 3d Calico Nymph, Ribbontail.

830. Silver Cup. Best Blue Nymph, Ribbontail.
Ribbon. 2d Blue Nymph, Ribbontail.
Ribbon. 3d Blue Nymph, Ribbontail.

TELESCOPE NYMPHS

831. Silver Cup. Best Scaled Tel. Nymph, Veiltail.
Ribbon. 2d Scaled Tel. Nymph, Veiltail.
Ribbon. 3d Scaled Tel. Nymph, Veiltail.

832. Silver Cup. Best Scaleless Tel. Nymph, Veiltail.
Ribbon. 2d Scaleless Tel. Nymph, Veiltail.
Ribbon. 3d Scaleless Tel. Nymph, Veiltail.

SECTION R—Aquarium Exhibit—(Continued)

Class

TELESCOPE NYMPHS—(Continued)

833. Silver Cup. Best Calico Tel. Nymph, Veiltail.
Ribbon. 2d Calico Tel. Nymph, Veiltail.
Ribbon. 3d Calico Tel. Nymph, Veiltail.

834. Silver Cup. Best Blue Tel. Nymph, Veiltail.
Ribbon. 2d Blue Tel. Nymph, Veiltail.
Ribbon. 3d Blue Tel. Nymph, Veiltail.

835. Silver Cup. Best Scaled Tel. Nymph, Ribbontail.
Ribbon. 2d Scaled Tel. Nymph, Ribbontail.
Ribbon. 3d Scaled Tel. Nymph, Ribbontail.

836. Silver Cup. Best Scaleless Tel. Nymph, Ribbontail.
Ribbon. 2d Scaleless Tel. Nymph, Ribbontail.
Ribbon. 3d Scaleless Tel. Nymph, Ribbontail.

837. Silver Cup. Best Calico Tel. Nymph, Ribbontail.
Ribbon. 2d Calico Tel. Nymph, Ribbontail.
Ribbon. 3d Calico Tel. Nymph, Ribbontail.

838. Silver Cup. Best Blue Tel. Nymph, Ribbontail.
Ribbon. 2d Blue Tel. Nymph, Ribbontail.

COMETS

839. Silver Cup. Best Scaled Comet, Veiltail.
Ribbon. 2d Scaled Comet, Veiltail.
Ribbon. 3d Scaled Comet, Veiltail.

840. Silver Cup. Best Scaleless Comet, Veiltail.
Ribbon. 2d Scaleless Comet, Veiltail.
Ribbon. 3d Scaleless Comet, Veiltail.

841. Silver Cup. Best Calico Comet, Veiltail.
Ribbon. 2d Calico Comet, Veiltail.
Ribbon. 3d Calico Comet, Veiltail.

842. Silver Cup. Best Blue Comet, Veiltail.
Ribbon. 2d Blue Comet, Veiltail.
Ribbon. 3d Blue Comet, Veiltail.

843. Silver Cup. Best Scaled Comet, Ribbontail.
Ribbon. 2d Scaled Comet, Ribbontail.
Ribbon. 3d Scaled Comet, Ribbontail.

844. Silver Cup. Best Scaleless Comet, Ribbontail.
Ribbon. 2d Scaleless Comet, Ribbontail.
Ribbon. 3d Scaleless Comet, Ribbontail.

845. Silver Cup. Best Calico Comet, Ribbontail.
Ribbon. 2d Calico Comet, Ribbontail.
Ribbon. 3d Calico Comet, Ribbontail.

846. Silver Cup. Best Blue Comet, Ribbontail.
Ribbon. 2d Blue Comet, Ribbontail.
Ribbon. 3d Blue Comet, Ribbontail.

SECTION R—Aquarium Exhibit—(Continued)

TAILLESS JAPS

Class

847. Silver Cup. Best Tailless Jap.
Ribbon. 2d Tailless Jap.
Ribbon. 3d Tailless Jap.
848. Silver Cup. Four best Lion Heads.
849. Silver Cup. Four best Orandas.
850. Silver Cup. Four best Celestials.
851. Silver Cup. Four best Scaled Telescope Veiltails.
852. Silver Cup. Four best Scaleless Tel. Veiltails.
853. Silver Cup. Four best Black Telescope Veiltails.
854. Silver Cup. Four best Calico Telescope Veiltails.
855. Silver Cup. Four best Blue Telescope Veiltails.
856. Silver Cup. Four best Scaled Jap Veiltails.
857. Silver Cup. Four best Scaleless Jap Veiltails.
858. Silver Cup. Four best Calico Jap Veiltails.
859. Silver Cup. Four best Blue Jap Veiltails.
Silver Cup. Largest and best exhibit of Telescopes.
Silver Cup. Largest and best exhibit of Japs.
Silver Cup. Largest and best exhibit of Nymphs.
Silver Cup. Largest and best exhibit of Comets.
Silver Cup. Largest and best exhibit of Lion Heads.
Silver Cup. Largest and best exhibit of Orandas.
Silver Cup. Largest and best exhibit of Celestials.
Silver Cup. Largest and best exhibit of Shubunkins.
Silver Cup. Largest and best exhibit of Wild Fish.
Silver Cup. Largest and best exhibit of Tropical Fish.

PRIMA DONNA THE BEST MONEY-MAKER WE HAVE EVER GROWN

SEE IT GROW IN OUR HOUSES

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THE FLOREX GARDENS, ROSE GROWERS
NORTH WALES, PA.

SPECIAL CUPS

1. Silver Cup, presented by Franklin Barrett, for the Fish scoring the highest number of points.
2. Silver Cup, presented by Dr. William Peck, for the best yearling Black Telescope.
3. Silver Cup, presented by Jacob Hope, for the longest tail Comet.
4. Silver Cup, presented by Jacob Cassel, for the best collection of Blue Shubunkins.
5. Silver Cup, presented by Jacob Cassel, for the best collection of yearling Telescopes.
6. Silver Cup, presented by Cugley & Mullen, for the best arranged 24-inch aquarium for house ornamentation.
7. Silver Cup, presented by Cugley & Mullen, for the best American-bred Scaleless Fringetail.
8. Silver Cup, presented by the Germantown Horticultural Society, for aquarium showing best plant life.
9. Silver Cup, presented by Dr. Herman Burgin, for the best yearling Calico Telescope.
10. Silver Cup, presented by L. J. Staunton, for the best yearling Jap.

STAGING DAYS

SATURDAY, MARCH 25

CLASSES TO BE STAGED ARE

Plants in Flower—Private Growers. Nos. 1 to 65 inclusive.

Cut Flowers—Private Growers. Nos. 66, 67.

Palms and Foliage Plants—Private Growers. Nos. 75 to 102 inclusive.

Ferns and Selaginellas—Private Growers. Nos. 110 to 124 inclusive.

Orchids, Plants—Private Growers. Nos. 130 to 149 inclusive.

Bulbs, in Flower—Private Growers. Nos. 160 to 234 inclusive.

Roses in Pots and Tubs—Private Growers. Nos. 250 to 263 inclusive.

Flowering Plants—Open Classes. Nos. 320 to 327 inclusive.

STAGING DAYS—(Continued)

Cut Flowers—Open Classes. Nos. 340 to 391 inclusive.

Gladioli. Nos. 400 to 418 inclusive.

Plants in Flower—Commercial Growers. Nos. 500 to 537 inclusive.

Bulbs in Flower—Commercial Growers. Nos. 550 to 557.

Ferns and Selaginellas—Commercial Growers. Nos. 560 to 567.

Orchids, Plants—Commercial Growers. Nos. 570 to 589.

Palms and Foliage Plants—Commercial Growers. Nos. 600 to 626.

Roses in Pots and Tubs—Commercial Growers. Nos. 650 to 665.

Aquatics—Special Class.

Aquarium Exhibits—Nos. 800 to 859 inclusive.

MONDAY, MARCH 27

Roses, Cut—Private Growers. Nos. 264 to 285 inclusive.
Roses, Cut—Commercial Growers. Nos. 670 to 723 inclusive.

TUESDAY, MARCH 28

Carnations—Commercial Growers. Nos. 735 to 759 inclusive.

WEDNESDAY, MARCH 29

Sweet Peas—Nos. 425 to 458 inclusive.

THURSDAY, MARCH 30

Retail Florists' Rose Exhibits. Nos. 724 to 729.
Display of Cut Roses—Commercial Growers. No. 730.

FRIDAY, MARCH 31

Carnations—Private Growers. Nos. 300 to 308 inclusive.
Display of Carnations—Commercial Growers. Nos. 760 and 761.
Retail Florists' Carnation Exhibits—Nos. 762 and 763.

FLORISTS' TELEGRAPH DELIVERY

The Florists' Telegraph Delivery is an organized section of the Society of American Florists composed of florists in different cities and communities who, through their organization, make possible the interchange of orders by wire covering the delivery of flowers and floral designs in their respective localities. For instance: a person in Philadelphia may desire to have presented at a New York address a floral birthday offering. The order is placed with a Philadelphia member of the organization, who transfers it to a New York member, who makes prompt delivery in accordance with instructions. Distance is no object, a New York-San Francisco transaction being equally simple. The only additional charge for the service is the actual cost of the telegraphed message, and this is kept at the minimum through the use of a telegraph code in the possession of all members.

The members of the organization are all reputable business men, and a patron can rely on the fulfilment of an order in a manner as satisfactory as though it were to be actually executed by the florist at first hand.

OFFICERS

President, Irwin Bertermann, Indianapolis, Ind.
Vice-President, W. F. Gude, Washington, D. C.
Treasurer, W. L. Rock, Kansas City, Mo.
Secretary, Albert Pochelon, Detroit, Mich.

AMERICAN DAHLIA SOCIETY

This Society was organized in New York on May 10, 1915, and by the close of the year its membership roll carried about 200 names. The objects of the Society are: To stimulate interest in, and promote the culture and development of the Dahlia; to establish a standard nomenclature; to test out new varieties, and to give them such recognition as they deserve; to study the diseases of the Dahlia and find remedies for same, and to disseminate information relating to the flower; to secure uniformity in awarding prizes at flower shows, and to give exhibitions where deemed desirable.

NATIONAL ASSOCIATION OF GARDENERS

This Association has been in existence for some years. In 1911 it became incorporated under the laws of the State of New Jersey, since which time it has greatly increased its membership, and is now a strong factor in the affairs of horticulture and floriculture in this country. The object of the Association is to elevate the profession of gardening, to arouse a greater interest in horticulture and floriculture, and to develop a closer relationship between the estate owner and the gardener.

THE FLORISTS' CLUB OF PHILADELPHIA

This Club was organized on October 5th, 1886.

For a year previous there had been a temporary organization to prepare to entertain members of the Society of American Florists at their Annual Convention to be held August, 1886.

After the Convention, there being quite a sum of money left over, and as the meetings of the temporary organization had such a good influence on all concerned, the organization was made permanent. In the resolutions pertaining to the permanent organization are these words: "This Club as a permanent organization is destined to be of great service to the Society of American Florists and the Pennsylvania Horticultural Society." The first officers were:

Robert Craig, *President*,
Chas. D. Ball, *Vice-President*,
Thomas Cartledge, *Treasurer*,
Edwin Lonsdale, *Secretary*.

The Club decided at its inception not to hold exhibitions or offer prizes, leaving these entirely to the Pennsylvania Horticultural Society. And in return for the assistance given, and in recognition of the work of the members of the Club, the Pennsylvania Horticultural Society provided the Florists' Club with a Club Room in the basement of Horticultural Hall.

The Florists' Club has been a very successful organization and has done much to distribute knowledge of Horticultural subjects. As from the start of the Club, it has been the custom to have some one prominent in the profession to give an essay at each meeting.

The Club has a membership of 320. The officers for 1916 are:

Geo. Burton, *President*,
John C. Gracey, *Vice-President*,
George Craig, *Treasurer*,
David Rust, *Secretary*.

California Privet and Berberis Thunbergii

Largest grower in the country. Can supply you with any quantity or grade you wish. Stock first class in every particular.

Do not fail to get my prices, it will pay you.

C. A. BENNETT, Robbinsville Nurseries, **Robbinsville, N. J.**

ASPLENUM NIDUS AVIS

ASPLENUM NIDUS AVIS

THE BIRD'S NEST FERN

BY J. W. P.

One of the most beautiful Ferns adapted to house culture is the Bird's Nest Fern, *Asplenum nidus avis*. The fronds or leaves are produced around the center of the plant. Now the center is filled with a fibrous substance resembling very much a nest through which the young fronds unfold, looking as they first appear, like the eggs in the nest. While the plant was brought from India as long ago as 1820, it is only in later years that it is grown in quantity for the European markets, and still more recently for the American. It is now becoming known as one of the best plants for the home, growing well under adverse conditions and retaining its own peculiar beauty a long time. The Bird's Nest Fern can readily be distinguished from all other Ferns by its beautiful light green undivided leaves, which on full-grown specimens are from two feet to four feet long and from three inches to eight inches broad, making an altogether beautiful plant, but one that must be seen to be appreciated.

LECTURERS

ARTHUR COWEE, BERLIN, N. Y.
SUBJECT: "GLADIOLI"; APRIL 1. See Page 31

E. I. WILDE, STATE COLLEGE, PA.
SUBJECT: "BULBS FOR SUMMER BLOOM"; APRIL 1. See Page 31

SUNBURST ROSE

ROSES IN THE LANDSCAPE*

BY CHARLES DOWNING LAY
Editor "Landscape Architecture"

When I tell people that I propose to plant roses near the house or along the drives it is often hard to make them see what I mean, for roses are to most people objects for personal adornment or for table embellishment.

*It has been assumed that the rose outdoors is a garden plant only, and in catalogues or books treating of landscape effect it is usual to find the statement that the rose is not useful in the shrubbery or the border. As a landscape architect in active practice, and treating the rose wholly on its merits, Mr. Lay here shows an unsuspected value for it. It may not be amiss to say that certain of the newer climbers with persistent foliage form splendid objects in the border with but a little training, while the rugosas have also a definite shrub value when properly placed.—Editor American Rose Annual.

The Hybrid Perpetuals, Teas, and other garden types are indeed of little value or interest except in the house, for if the flowers are left outdoors they open too fast and too far, and soon wilt and fade in the sun. The growth, too, is either puny and thin, or tall and spindling, and the foliage has little beauty. They have been so bred for flowers that their appearance as a whole has suffered.

It is different, however, with the common roses of the thickets, which have mostly been neglected by the rosarian and the hybridizer, and which retain the simple delicacy of single flowers together with the rugged constitution which means thrifty growth and pleasing foliage. These common wild roses can be used with other shrubs in any thicket, or they may be planted in masses, each variety by itself, or several varieties may be associated in a plantation. They fruit abundantly, and the haws are of considerable beauty and interest in the winter landscape. This is a matter of great importance, for the shrubbery in winter should be as beautiful though less showy than in summer. Indeed, I often think our native shrubs are more beautiful in winter, when the brilliant luxuriance of full foliage has given place to the more subtle hues of the bare branches. These bare branches are full of delicate misty colors when seen in mass, and these colors have a wide range, from pale green to rusty greens, bronzy reds, and quiet crimson.

The roses show remarkable variation in height and in habit of growth, so that they can be used in many different situations. They are easy to suit as to soil, and can be grown along meadow streams, on rocky hillsides, or on the sandy beach, often appearing voluntarily where few other plants will live.

Their use in the landscape is important, for the native varieties are characteristic of much of our eastern scenery, and when planted in quantities they give that appearance of natural wildness which is more and more coming to be the ideal in parks and country places.

The wild roses, as they must continue to be called to distinguish them from the hybrids, are found in New England pastures associated with bayberry, red cedar, elder, arrow-wood and other shrubs of the fields. Along the coast they are commonly found in such desert places as support the beach plum, bayberry, goldenrod and beach-grass. They gain from association with these wild neighbors. They are especially useful for holding steep and rocky banks, since their stolons grow in every direction and form a perfect mass of shoots and roots which hold leaves and soil.

I doubt if any shrub makes as good a cover for birds, winter or summer. They are difficult for cats to penetrate, and a thicket of *Rosa multiflora* and *R. setigera* is impassable for man or boy. The rose thicket needs no care when well started, except to cut out seedling trees which may appear. In fact, they are so thorny that care of the ordinary sort is impossible, and even the most Teutonic gardeners will cease in disgust their efforts to mutilate a rose shrubbery.

The wild roses cannot be tamed; they will never make good specimens for

the lawn, and planted with such sophisticated things as *Hydrangea paniculata grandiflora* they will either succumb or smother the hydrangea. Viburnum, barberry, sumac, witch-hazel, hazelnut and other shrubs of the fields they will endure and live peaceably with, and sometimes a specimen or two of Forsythia is not amiss.

Along the coast, whether rocky or sandy, *Rosa lucida* is probably the best. Under these hard conditions it may be only a few inches high, but it will bloom, hold the falling leaves and the drifting sand, and gradually by its mere presence ameliorate the conditions. On the rocks also it may be dwarfed, but it will still bloom and prevent washing of soil.

In wet meadows, *Rosa carolina* will probably be best, growing tall and strong, and showing its head above the elder, the blackberry and the viburnums. The plants can be used in any naturalesque landscape, even close to the house or the terrace walls, if the intention be to bring the naturalesque landscape to the boundaries of the kept grounds, thus making it appear that a site naturally adapted for the house was utilized.

Their season of bloom stretches over a long period, and if native and foreign roses are used together the plantation will have color in spots for six weeks or so. This mixture of varieties has great advantages for the roses, for they seem to help each other, the good foliage of one hiding the thinness of its neighbor's dress. Such a combination of varieties prevents overdoing the rose color which in too large masses is always tiresome in the landscape.

There are fifty varieties of roses described in the 1900 edition of Bailey's "Cyclopedia of American Horticulture," some of them probably being of little value. Among the most useful for general landscape planting are the following:

Rosa blanda. Height 2 to 4 feet. The earliest to bloom of the native species, and the handsomest in winter. The branches are smooth, shiny and deep red.

Rosa carolina. Height 1 to 8 feet. Prefers swampy and wet ground.

Rosa cinnamomea. Height 3 to 4 feet. The common Cinnamon rose of old gardens. Like the lilac, it outlasts many houses, and is frequently found around old cellars growing in the grass. The flower is small, semi-double, pink, fragrant. It increases by stolons and can be used with our native wild roses or with other shrubs.

Rosa damascena. Height 3 to 4 feet. The old Damask rose. It is rather pleasing with other roses or in the shrubbery where its foliage is not much seen. Rather large, double, fragrant flower.

Rosa humilis. Height 6 inches 6 feet. The common wild rose of the interior, and the least interesting of the native roses.

Rosa lucida. Height 4 feet. The common rose of the northeastern coast. Pale pink flowers; thick-lustrous leaves, reddish stems and plentiful spines.

Rosa lucida alba. Height 4 feet. White-flowered form of the above; has greenish branches.

Rosa multiflora. Height 15 feet. Forms a roundish dense shrub when grown alone. It will climb on trees or other shrubs. It has clusters of small white flowers with yellow stamens, a delicious spicy fragrance, and small red or orange fruits. It is very spiny, and makes an impenetrable thicket.

Rosa nitida. Height 2 feet. Called our most beautiful native rose. Short stems, covered with bright red prickles. Always dwarf. The flowers are darker than the other natives. Useful for steep banks, or in the front of a bed of other roses.

Rosa rubiginosa. The Sweetbrier. This should be planted singly, with other tall roses such as multiflora or setigera, as its foliage is not very good although the variety is indispensable because of the fragrance of the new shoots.

The Lord Penzance Hybrids of the Sweetbrier are charming plants with exquisite salmon, pink and coppery single blossoms. These, too, should be planted sparingly in every rose thicket.

Rosa rubrifolia (*R. ferruginea*). Height 6 to 7 feet. Is useful because of the reddish tinge of its foliage. It is not a strong grower, and should be planted with other roses. The flowers are small, with a delicate sort of beauty and an unusual pink color. The haws are good.

Rosa rugosa. Height 6 feet. A trifle exotic in appearance because of its rough, dark green, shiny foliage. Stems are thickly covered with gray prickles. Flowers large, single, in some seedlings an ugly shade of rose, followed by large orange or red haws. The hybrids of this rose are better in flower and foliage and look less exotic, particularly Mme Georges Bruant and Arnoldiana.

Rosa setigera. The Prairie rose. Height 4 to 6 feet. Large single flowers in clusters, opening one at a time. Gracefully arching branches. The foliage is good, and turns dark bronzy red in the fall. It can be planted with other roses. or in masses by itself back of lower roses, such as nitida or even Wichuraiana.

Rosa Wichuraiana. Trailing over the ground and growing shoots perhaps 10 to 12 feet long. This, unhappily called the "Memorial rose," has the flower and habit of a sublimated dewberry. Its green spiny stems with spiny leaves sprawl over the ground and are happier so than when on a support. The flowers are pure white with a large circle of yellow stamens and are followed by interesting fruit. It will grow over banks, over rocks, hang down on stone walls and persists even in the grass. The hybrids of this rose are numerous and include many of upright growth, such as W. C. Egan and Lady Duncan, which can be planted singly among other roses, though it must not be forgotten that these roses when in bloom have as yet a somewhat strange look in wild places and are likely to give an over-dressed appearance, especially when used too generously (as they have been along railroad embankments). Notable among these hybrids are Sargent, called one of the handsomest roses that has been raised in the United States. Jennie Dawson is probably the best white.

The wild rosarian, as he might be called, will be interested in trying some of the oriental roses recently established in the Arnold Arboretum. Some of

these which promise to be most valuable because of their color (especially the whites) and habit are

Rosa caudata. From western China. Pink flowers 2 inches in diameter in large clusters; fruit orange-red, 1 inch long. Perfectly hardy.

Rosa Helenæ. Height 5 to 6 feet. Flowers white, 1½ inches in diameter in clusters; fragrant.

Rosa Hugonis. From Western China. Clear yellow single flowers and neat pale foliage.*

Rosa Jackii. From Korea. Flowers white, 2 inches in diameter, in clusters; lustrous foliage.

Rosa multibracteata. Innumerable small pink solitary flowers. One of the last Chinese roses to bloom.

Rosa setipoda. Large vigorous shrub with broad, many-flowered clusters of dark pink flowers.

Rosa spinosissima var. *altaica.* Tall, wide bush. Numerous, large, single, white flowers, faintly tinged with yellow.

It would be difficult to imagine a more lovely plantation than a long thicket of our native roses, bordering a road for instance, beginning with nitida in front, then blanda, lucida and lucida alba; these in turn broken by masses of multiflora interspersed with setigera, rubiginosa, rubrifolia, etc. The whole to be backed up by other families of the rose order, such as the native hawthorns, plum, flowering cherries and flowering apples. This would not be without some bloom from the time of the earliest plum blossom to the last blow of the setigera, for probably three months or more; and such a planting can not be surpassed in delicacy of autumn and winter beauty.

* Referred to with much interest elsewhere in the Annual, particularly by Dr. Van Fleet and Mr. E. H. Wilson.—Editor American Rose Annual.

THE VIOLIN RUBBER

(FICUS PANDURATA)

BY ROBERT KIFT

Do you know this unique plant? It belongs to the rubber family. Its given name is Pandurata, which means "lyre-shaped," its large leaves being almost exactly the shape of a violin. With its dark green foliage strikingly marked with white cord-like veins, it is one of the most decorative house plants. This city will be afforded an opportunity at the National Flower Show to see the grandest collection of plants and cut flowers ever brought together in this country. Convention Hall, the largest building in the United States, will be taxed to its utmost to house this great display.

CYTISUS RACEMOSUS

CYTISUS RACEMOSUS

THE GOLDEN BROOM

BY ROBERT KIFT

This wonderfully beautiful flowering plant, with its clouds of yellow blossoms, is most conspicuous in all groups of Easter plants, at which season it is seen in all its glory. Being of rapid growth its pliable branches can be trimmed to any form. In its natural bush form with every branch full of flowers, it is a golden glow; it can be trimmed to a perfect globe in shape and presents the appearance of a gilded ball. The illustration shows a standard form. The stem of this plant is allowed to grow to the desired height, the lower shoots being removed to provide for a straight center stem; when the desired height is reached the end of the shoot is "pinched" or removed, which causes it to branch out from the next lower buds. These in turn are "pinched" until finally there is a heavy head of branches which are trimmed to a round head and which produce quantities of their golden tassel-like blossoms.

Splendid examples of this beautiful plant will be seen at the great National Flower Show, to be held in Convention Hall beginning March 28th and open every day and evening until April 2nd. Twenty-five thousand dollars in prizes is offered, and florists from all the large Eastern cities will send their best plants to compete for the large offerings.

A MOST MERITORIOUS VINE

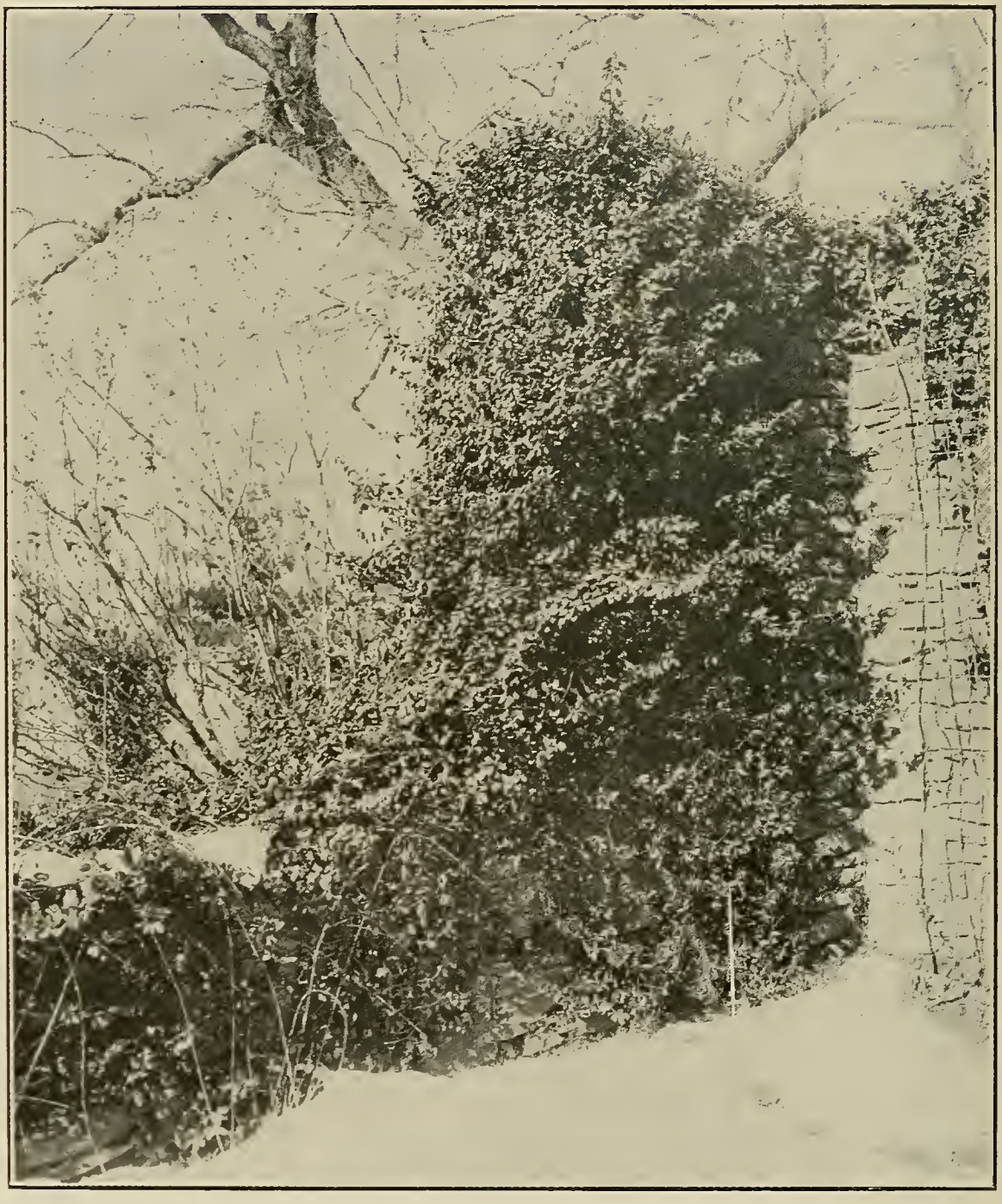
BY ADOLPH MÜLLER

By far the most superior vine now growing and known is the Evergeen Bittersweet (*Euonymus vegetus*).

This plant keeps its leaves in perfect green color all through the winter and spring months and the summer season, and is most conspicuous in the fall and winter months, when its rich dark foliage is covered and decorated as it were with many clusters of scarlet berries. This red among the green gives the whole plant an effect of rare distinction that no other vine possesses. It is indeed a rare plant and one that will receive a world-wide popularity once the public can see it in use.

What to the eye of the traveler can be more beautifully entrancing than to see a railroad embankment covered with these vines? Any exposure is right for them—either the north, south, west or east. Good subjects to plant against are garden walls of brick or stone, trellises, fences, terraces, old trees and anything a vine can grow upon.

It is perfectly hardy and without question the most beautiful decorative vine ever planted.



EUONYMUS VEGETUS

HOOSIER BEAUTY ROSE

THE AMERICAN ROSE SOCIETY—ITS AIMS AND PURPOSES

BY S. S. PENNOCK, PRESIDENT

This Society was organized in New York under auspicious circumstances in March, 1899, with the object of increasing public interest in the Queen of Flowers. From the by-laws then adopted are presented the purposes of the organization.

1. To increase the general interest in the cultivation and improve the standard of excellence of the Rose for all the people.

2. To foster, stimulate and increase the production in every possible way of improved varieties of the Rose, suitable to our American climate and requirements.

3. To organize a system of exhibitions at such times and places as this society may, from time to time, decide on; to offer prizes of money, of gold, silver, and bronze medals, and

certificates of merit for meritorious new varieties of Roses; also to offer prizes of money, cups, etc., for excellence of exhibits made at shows held by the Society.

It is also proposed that the Society disseminate to its members the latest information pertaining to the Rose, recommending new varieties of undoubted merit, best methods of culture, how to fight insect and fungoid pests, the proper use of manures, and other information from the pens of leading experts that, especially to amateurs, will be worth many times the cost of membership.

Since then the Society has grown and prospered, until today we have a membership comprising most of the leaders in rose-growing, both in a professional and an amateur way.

To help each member, whether professional or amateur, is the aim of the Society. We desire to disseminate useful literature, and in every way to promote rose-growing, either under glass or in the open. We seek to provide rose information from the pens of the best writers in the country—information that will cover every phase of the subject.

We cherish the hope that we can eventually give our members help of at least as much real value as that supplied in England by the National Rose Society, which sends out literature that is invaluable to its members. With this object in view, we have this year undertaken to publish the annual Bulletin with a much broader scope than heretofore, and, of course, at more cost. It is planned to make it a reference book of value, as well as to present interesting rose reading; to have it, in truth, The American Rose Annual.

At a meeting of the Executive Committee of the American Rose Society held in Philadelphia during the summer of 1915, this matter of improving our publications was discussed with Mr. J. Horace McFarland, of Harrisburg, Pa., who kindly consented to help us, in agreeing for three years to act without compensation as editor of this Annual. In thus placing the matter in his hands, we have had the satisfaction of believing that he would carry the work through with ability, giving the commercial and amateur lovers of roses a book of interest.

This first American Rose Annual, succeeding the Annual Bulletins which have been so capably handled by our indefatigable Secretary, Mr. Benjamin Hammond, is therefore offered as an earnest of the intentions of the American Rose Society.

For a number of years the society has worked mostly on commercial lines, and as such it has probably heretofore appealed more strongly to the commercial man than to the amateur. The commercial rose industry of this country is a large industry, and it serves to set most exacting standards of rose attainment. Yet the amateur has not been lost sight of. He is a more important factor of rose progress each year. Not only does he benefit and inspire the commercial man, but he is popularizing the rose as no other means can or will.

It is to the amateur I feel we must look, as the years go by, to increase the

love for and the knowledge of roses. He will spur on the commercial grower to bring his productions nearer perfection. The amateur grower is certain to influence the cut-flower grower to try more varieties, and to try in the greenhouse those varieties that are doing well in the garden. There are probably many garden varieties of roses in existence today which could be to advantage forced under glass, if brought to the attention of the commercial grower.

Commercially, there are too few varieties being forced. The more varieties we have, the more opportunity there is of placing them before the public. How many books would be sold if there were but four or five titles available? So it is with roses—the fewer varieties, the fewer sales. People get tired of one thing; they want variety; they call for something new. So to the commercial man I propose that he broaden out in work with the amateur to increase the number of good roses grown and forced; and the selling field will correspondingly expand.

The amateur's work, to my mind, is far more fascinating than is the commercial end. My experience as an amateur in garden roses is very small, but it has been a source of great pleasure and recreation to me. Looking around among my friends, both amateurs and professionals, I can see the interest in garden roses growing. The commercial rosarian is now realizing that the garden rose is and will be a tremendous factor in the future of the rose in America.

The American Rose Society, in establishing test-gardens in various parts of the United States is thus working out a feature that will become a most valuable and far-reaching asset to rose-growing. These test-gardens are now firmly established in Washington, in Hartford, at Cornell University (Ithaca, N. Y.), and in Minneapolis.

A committee has been appointed to look after and take charge of each garden. The plan is to establish in these test-gardens at least five plants of a kind, in the case of Teas, and two of a kind, in the case of Climbers, of every known variety that can be obtained, not only from this country, but from foreign countries as well. Accurate records are to be kept as to how they flourish, the climatic conditions, the amount of bloom, and whatever statistics as to temperature, soil, etc., that may be deemed necessary by the committees in charge.

Anyone contemplating the growing of a certain variety—for instance, in the same climate as Washington—might refer to the appropriate test-garden reports, and see how that variety had behaved—whether it was hardy, whether it was able to stand the hot summer, and so on. These records as summarized each year in this Annual, will become invaluable.

It has been my pleasure to go over three of the four test-gardens already established, thus enjoying some of the most pleasant days of my experience, and learning more about roses than one would be able to pick up in a month of ordinary inspection. I believe I am safe in saying that everyone who visits these test-gardens feels that the time has been well spent.

Probably we owe more to our ex-President, Mr. Wallace R. Pierson, for pushing these test-gardens, than to any other one individual. In encouraging this work Mr. Pierson has been far-sighted, and has realized what the gardens will mean both to the commercial man and to the amateur.

Any society or horticultural organization in the United States or Canada which holds an annual exhibition of roses can affiliate with the American Rose Society, and upon affiliation under our rules will receive annually one silver and two bronze medals, to be offered at local exhibitions. Further, each affiliated society will receive The American Rose Annual for each one of its members.

These annual shows, as held by the various societies over the country—not only by present affiliated societies, but by those we hope to have affiliated with us in the future—are to my mind likely to prove the greatest advertisers for the rose that we can have. So far as I know, wherever a show has once been held, it is continued year after year, each being larger and better, with more interest taken.

At a little show held annually at Lansdowne, Pa., last June an old Quaker friend of the writer came to him, and after looking the exhibition over, being very much interested in the flowers—not only the roses, but the other flowers as well—said: "I think *that* kind of work is good for the community; and when the people are busy with flowers, they are out of mischief." We certainly elevate the standards of our communities when we succeed in creating a love for roses; for if a man really loves the rose, he will surely love his neighbors!

It is surprising to note how many amateurs who attend these small shows possess much general information on roses—in fact, far more than the average commercial grower, who knows his own varieties very well, but whose knowledge outside of what he is growing may be limited.

A rose show, whether it is an amateur show, or whether it is one of the large shows fostered by the Society of American Florists, is an education to everyone who attends.

In each succeeding Rose Annual we want to have set forth some of the history of the rose, by the leading rosarians of the country; history that will be interesting in more ways than one; including the experience of both the commercial and the amateur grower. It is gratifying to know that this first American Rose Annual presents thus some papers of permanent value—as, for instance, Mr. Wilson's account of the species, Dr. Van Fleet's interesting suggestions as to hybridizing, and the story of "Gurney" Hill's rose half-century.

At a meeting of the American Rose Society held in Boston, August 20, 1914, when Mr. M. H. Walsh was presented with the Hubbard gold medal, this same Mr. Hill, in making the presentation, said among other things:—

"Now another thought. I hope some day that this medal will go to a man who will take up our native species and from some of our best and hardiest Hybrid Teas produce roses which

shall be free from what we call black spot, and which will flourish in our American gardens. I believe that that can be accomplished. I believe some day it will be done. But, let me tell you, someone will have to do it who is disinterested, who is not always looking at the dollar at the end of the accomplishment; for up to this date there has been but very little money to any man who has raised a rose for the embellishment of our gardens."

There are a number of enthusiastic breeders of roses working toward these ends, and we hope to have in the next few years some very good results; results that will revolutionize the garden planting of roses. In addition to those who are thus working, we have a number of commercial men making rose history.

The American Rose Society is organized to serve as a clearing-house for rose workers. In its ranks will be found those interested in new varieties, in protecting roses from insects and diseases, in knowledge of soils, fertilizing, pruning, planting, and cultivating. It is because of these various advantages which the American Society now has to offer, that we appeal to each member to help rose progress through it, by increasing its membership, by adding to its literature, by promoting shows and interchange and by working for rose prosperity. We may thus have a Rose Society that will be better, larger and more far-reaching, of which it will be a real honor to be a member.

NOTES ON CROTONS

Indigenous to East India Islands and China, in their native state only those with green and yellow foliage are found. By cross-fertilization in the past thirty years more than three hundred distinct named varieties have been obtained. Some of these new varieties when first obtained are worth from one hundred dollars to five hundred dollars for a single small plant to multiply for commercial purposes.

Crotons are more brilliant in coloring than any other species. They are grown in green, yellow, red, pink, bronze, crimson, white and all intermediate shades and combinations of color. They are beautiful in the conservatory in winter and unexcelled for bedding out-of-doors in full sun in summer. They are a conspicuous feature of the bedding around Horticultural Hall, Fairmount Park, and in the fine summer beds at Girard College. Crotons should not be planted out before the tenth of June, as they require at all times temperature not lower than 70 degrees at night.

Plants one to three feet high of the bright red and yellow varieties particularly, are largely used at Christmas time for jardiniere and smaller ones for window-boxes, hampers and other combinations so popular in the florists' shops at the Christmas holidays. The finest collection ever shown in America will be at the National Flower Show.

GETTING BETTER ROSES*

Elsewhere in this Annual will be found notes as to the relation of the European war to rose-production, and in Dr. Van Fleet's paper on "Possibilities in the Production of American Garden Roses," we are informed that 136 varieties were imported in one year. Of this number, barely a dozen might be expected to show sufficient value in the United States to warrant their continued growth. It is not to be understood that this small proportion is due to poor quality or to low standards among the foreign hybridizers, but rather that it indicates the lack of adaptability to American conditions in most of the rose varieties coming from abroad.

The United States has not been prominent in rose-hybridizing, as may be understood when it is noted that out of 588 varieties of roses listed in the 1914 Official Catalogue of the National Rose Society of England, covering the good roses of all the world, but twenty-six are of American origin—less than 5 per cent!

That roses of American origin are likely to be better adapted to American conditions need not be argued. The notable successes scored by the few hybridizers who have worked in the United States—as witness the Walsh, Van Fleet, Hill and Cook productions, for instance—indicate the possibility of notable advances, particularly in garden roses, when American rosarians, properly encouraged, really get to work.

The resources now at command in the species collected in west China by E. H. Wilson, and the greater knowledge of how desirable rose characters may be transmitted, indicate that the present is a most favorable time to promote the getting of better roses. The checking of European endeavor, in consequence of the Great War, adds another inducement to go forward in rose-hybridization.

It is for these reasons that an especial endeavor has been made to gather for The American Rose Annual all available information and experience in relation to American rose origination. The governing principles are set forth, and a careful reading of the papers in this section will enable an aspiring hybridizer of roses to save years of time, for he may have thus at command the conclusion of experience.

In order to indicate the work already done, a list of roses originated by hybridization in America is added. This list is probably far from complete, although much effort has been made to make it so. Some capable workers seem disinclined to answer letters, and in one case the desired information came only after a half-dozen letters and one telegram had been followed up through mutual friends. It is intended to carry the list along from year to year, adding to it as may be possible. Let us have American roses for America!

*Editor's Introduction in the AMERICAN ROSE ANNUAL.

THE SWEET PEA—EVERYBODY'S FLOWER

BY EDWIN JENKINS.

> "The Sweet Pea has a keel that was meant to seek all shores; it has wings that were meant to fly to all Continents; it has a standard which is friendly to all nations; and it has a fragrance like the universal Gospel, yea, a sweet prophecy of welcome everywhere that has been abundantly fulfilled."
>
> REV. W. T. HUTCHINS.

Surely the Sweet Pea has a better claim to the title of "Everybody's Flower" than any other flower that is grown! What other plant will give us such a profusion of flowers, such returns for our love and labor, such airy graceful blooms of exquisite shades and lovely fragrance? It is a flower of such tremendous possibilities in artistic decorative work that it meets the most exacting demands liable to be made upon it. It is so inexpensive that the poorest may well enjoy its beauties. It is easy to grow. It may be grown in a tub or a box in a city yard, or it may be planted alongside a wall, or to hide an unsightly fence; and while it loves the full sunshine, it is so accommodating that it will tolerate a considerable amount of shade and still do well. Many another fine flower, like the Rose and the Carnation, have lost some, or all, of their sweet fragrance under the plant breeders' hands, but not so with our Sweet Pea, the finest kinds are still Sweet (scented) Peas.

Many who have seen the wonderful Sweet Peas exhibited in Great Britain —stems a foot and a half long, surmounted by four, and often five large flowers —have marveled, and wished that such Sweet Peas could be grown here in America. The writer believes it quite possible to grow this beautiful flower with equal success here on the Eastern coast, but to do so we must accommodate our methods to meet the climatic conditions.

If the seed is sown in October or November, and the plants carried through the winter in pots in a cold frame, or a very cool greenhouse, then planted out, as soon as the frost is out of the ground, on well prepared soil, given plenty of room, well staked and liberally treated in the matter of watering and feeding, as well as being disbudded to two or three growths per plant, we should secure quantities of fine Sweet Peas until the advent of the hottest weather. The stems and blooms produced under these conditions would be as superior to the ordinary grown Sweet Peas as are the finest Roses seen in the florists' stores to the common garden flower. However, the foregoing methods are not within the reach and possibilities of "everybody," and it is as a flower for everybody that we are dealing with the Sweet Pea just now.

CULTURAL DIRECTIONS

Get your seed from a reliable seedsman—and get the best varieties. The best time to sow the seed, to meet the requirements of the average grower, is

about the end of February or the beginning of March; and the surest way to get a good percentage of germination is to sow the seed about a half-inch deep in sand.

CHIPPING THE SEED.

Seed of all the reds, crimson or scarlet sorts will germinate quicker and more surely if a small piece of the hard seed coat is cut off. Do this with a sharp knife on the side opposite the bud or growing point. This chipping enables the seed to soak up moisture and may well be practised on all the colors, though it is more essential to the colors mentioned.

In a temperature of fifty-five to sixty degrees, the seed should germinate in about a week, and must then be potted in soil, or planted out in boxes to grow along in a temperature of about 55 degrees, until weather conditions will allow of out-door planting. This out-door planting must be done as early as possible, and the plants protected at nights from frost. A good way to protect the plants in the row is to nail two boards together, so as to form an inverted V, and set it over the plants at night until danger from hard frost is past.

Do not despair of raising good Sweet Peas if you are without a greenhouse, or even a cold frame; much may be accomplished by a little forethought and a little ingenuity. Figure 4 on page 90 shows a flat twenty-four inches long by twelve inches broad. It takes up but two square feet of room, and may be set in a house window. It is easily moved from place to place, holds about one hundred plants in paper pots (which are four inches deep) and will give the plants plenty of room until they can be planted out. Now, these plants are enough to plant a single row one hundred feet in length, or a double row fifty feet long, which is as much as many people can handle. Further, they will bloom longer and give superior flowers to any that may be planted closer; in fact, a good sturdy plant set out in fairly rich soil will fill the space if planted two feet apart.

The question may be asked, why go to this trouble of sowing seed inside in sand and transplanting afterwards, when we can sow outside in the open ground? The reason is: first, to ensure germination; secondly, to develop a healthy, sturdy root system before the plants make much top-growth; and, thirdly, because that great teacher, experience, has taught us that it is the better method, and the only sure way of getting satisfactory results.

PREPARATION OF THE SOIL

The Sweet Pea is not a fussy plant as to the exact nature of the soil, so long as it is sweet and wholesome, and contains a good measure of fertility. September or October are, perhaps, the ideal months for soil preparation, but if your ground was not made ready last fall, dig it over as deeply as possible, without incorporating too much of the infertile subsoil. This depth seldom exceeds one foot. Add a heavy dressing of well rotted farm-yard manure, and thoroughly mix it with the whole mass of soil. Don't put the manure in the bottom,

as is sometimes advocated. If you are going to plant only one single or double row, dig a space of at least two feet on each side of the centre of the row, and if you are going to plant parallel rows, set five feet apart from centres, then you will dig and manure the whole space. After the ground is dug, and before it is raked, add one pound each of ground bonemeal and air-slaked lime to each three square yards of ground.

PLANTING

While Sweet Peas may be planted in groups, or in various other ways, yet where the main consideration is the production of flowers for house decoration, double rows, with the plants set alternately about a foot apart either way, and five feet from centre to centre if several rows are planted, will be found to give the best results.

Take all precautions to avoid checking the growth of the plants. Be sure that they are always supplied with water while growing in the pots or boxes, and select a cloudy day for transplanting to their permanent growing place. Do not expose the roots any longer than you can help when planting, and firm the soil thoroughly around the plants when they are planted. The importance of a firm soil is very often overlooked by beginners.

SUPPORTS

Look ahead in this matter of supports and determine what you are going to use before you actually need it. Forethought in this, as in most of the other affairs of life, will pay a large interest. If you find that two inch wire netting six feet high is the only material you can use, get it in place before the plants are set out. We prefer good brush to the wire netting, and this may also be placed first, and then the plants have something to get hold of right away. Nothing so appals the young Sweet Pea plant as to find itself without any visible means of support, and to be allowed to sprawl on the ground in a helpless manner. Sometimes it is necessary to give the plants a tie to start them up the supports, and the enthusiastic grower will not begrudge this little extra work.

SPECIAL SUPPORTS FOR EXHIBITION PEAS

The ordinary methods will hardly do if the very finest exhibition flowers are the aim of the grower. The method here evolved is to use bamboo canes, eight foot long, to each shoot, and to restrict the number of shoots to three or four per plant. In using the canes for support, it is necessary to have good firm posts at both ends of the rows and to run a wire from end to end, tying the canes firmly to the wire (see Figure 1, page 88). It is even advisable to use such post and wires where brush is used, as it will prevent the brush from swaying too much in strong winds. Growing on bamboo canes involves a great deal of tying, and cutting away the tendrils—but nothing that is "worth while" is accomplished in this world without lots of work.

MULCHING AND WATERING

After the plants have started well into growth and the sun has warmed up the soil, a good mulch of strawy litter and half-decayed leaves will be of the greatest benefit to them, both in conserving moisture, by cutting off evaporation, and in keeping the soil from baking and getting too hot. Be liberal in the amount of space you cover on either side of the plants with the mulch, but do not put it on too heavy, about three inches is enough. Watering must be attended to as regularly as the soil appears to be on the dry side; and when it is done be sure to be thorough and give a good soaking. Half measures are worse than nothing at all.

FEEDING

Assuming that the ground has been well manured, as advised in the preparation of the soil, no great amount of feeding otherwise will be necessary, except that after the plants have been flowering for a week or two and the stems begin to show signs of shortening, a little stimulant, such as a light dose of nitrate of soda, or a dusting of dried blood well watered in, will be very beneficial; and as a tonic which will brighten up the colors of the flowers, and generally do good, a dusting of soft-coal soot about every ten days over the whole soil is well worth while.

PESTS

About the worst pests that afflicts the Sweet Pea is the fungoid disease called "mildew." Fortunately, this does not come until the season is well advanced. Good culture, and spraying with an anti-fungoid spray which has copper-sulphate as a base, are the best measures to ward it off. There are other diseases of a fungoid nature, such as "streak," but the only known way of combating them is to try and prevent them by maintaining the health and vigor of the plants unimpaired as long as possible.

Of insect pests, the only one that calls for special mention is "green fly," or "aphis." This is easily killed by any good nicotine spray. You must keep a good look out for this pest, as, owing to its protective coloring, it is liable to escape attention and get in lots of damage before it is discovered.

PICKING THE FLOWERS

As one of the chief characteristics of the Sweet Pea is that the more you pick the more you have, the sprays should be gathered every day as soon as all the flowers are developed, and to do this, use a sharp knife and cut them close to the base; plucking the stems out by force is rather unkind treament and apt to injure the vines.

SHADING

A light covering of cheese-cloth, or some other light material, must be put over the salmon and orange shades if you would get these most beautiful colors at their best, because a very little sunshine bleaches them out completely.

TWENTY-FOUR OF THE BEST VARIETIES

Constance Hinton—White
R. F. Felton—Lavender
Don Alvar—Lavender
Leslie Imber—Bicolor lavender
Rosabelle—Rose shade

Scarlet Emperor—Scarlet
Maud Holmes—Crimson
Hercules—Pink
George Herbert—Rose pink
Lady Evelyn Eyre—Light pink
Dobbies' Cream—Cream

King Manoel—Maroon

Lady Miller—Cream pink
Illuminator—Rich cerise pink
Mrs. Cuthbertson—Pink bicolor
Royal purple—Purple
Blue Picotee—Blue and white, marbled
Loyalty—Blue and white, Striped
Edrom Beauty—Orange salmon
Robert Sydenham—Orange
Blue Jacket—Dark blue
Sincerity—Cerise
Jesse Cuthbertson (Spencer)—White and pink, striped
Bertrand Deal Improved—Pale mauve

The above list does not include the introductions of 1916, only such kinds as have been tested and found good.

COLDWELL LAWN MOWER CO.
1916 *Newburgh, New York*

Offers

Motor Lawn Mowers . . . . Ride Type
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Horse Lawn Mowers . . . Standard Type
Horse Lawn Mowers . Demountable Type
Horse Lawn Mowers . . Threesome Type
Hand Lawn Mowers . . . Roller Type
Hand Lawn Mowers . . Side Wheel Type

Pay a visit to our exhibition booth No. 47, main floor

CHRYSANTHEMUMS FOR THE GARDEN

BY CHAS. H. TOTTY

Are you foregoing the pleasure of having a showy bed of Chrysanthemum flowers in the fall, thinking perhaps that they are too difficult to grow? In these few notes we are not going to speak of varieties that will do well under glass, but varieties that can be grown by everyone who has a few feet of space at their disposal.

The culture of the Hardy Chrysanthemums is simple: they will grow in any good garden soil and should be set out in the spring about eighteen inches apart with twelve inches between the rows. Pinch the plants back, once or twice during May or June to keep the plants dwarf, as some varieties are inclined to grow straggly instead of spreading into bush form. If the center shoots are pinched out once or twice as suggested, this will cause the plants to branch out into bush form.

Bud selection, which is of such paramount importance in growing greenhouse varieties, does not enter the cultivation of the hardy types at all; unless one wishes particularly large flowers on their varieties. If they do, the plants should be disbudded the latter part of July in order to concentrate the strength of the plant into the blooms. As a rule Hardy 'Mums are wanted for decorative effect in the garden, and the long graceful sprays are much more desirable for this work.

If a choice of sites is available I would suggest a location that has a protection of buildings or trees, from the north and west winds. Of course, this is not imperative, but it will help furnish an ideal condition.

The Early Flowering 'Mums have developed so tremendously the past few years that unless one has kept close track of them, they would be bewildered by the long list of varieties offered by dealers in this type of plant; all of which are warranted to give good satisfaction. The place of honor for outdoor 'Mums must be given the type known as Early Flowering. August Nonin of Paris, France, has done more than anyone else to perfect this type of plant, and today we have over one hundred varieties tested under American conditions that are guaranteed to flower the last week in September and during October, and give a wealth of bloom during this period; something that was impossible, a few years ago. Among the best of this type would be the following:

White: Dorothy; Debutante; Marie Dufour; Petite Jean and Normandie.

Yellow: Cranfordia: Carrie and Etoile d'Or.

Pink: Beaurepaire; Eden; Cranford Pink and Miss Burchfell.

Red and Bronze: Nellie Blake; Vesuve; A. Barham and Billancourt.

These Early Flowering 'Mums are duplicates of the large flowering types; otherwise known as greenhouse varieties; only they are dwarfer in habit and do not come quite as large, save in one or two instances, such as Cranfordia. This latter, closely disbudded will make a wonderfully large flower.

I mention the selection above, so that anyone who has not grown Early Flowering 'Mums, need not be bewildered by a large list but can be assured of satisfactory results if any or all of the above are grown.

SINGLES

which are also of comparatively recent introduction are wonderfully effective outdoors. It is true a great many of these Singles are not early enough to give good satisfaction flowering outdoors, but the following varieties flower in splendid condition outdoors from October 15 onwards:

White: Mrs. Chas. C. Mickle; Gladys Duckham; Mensa and Snowflake.

Pink: Ivor Grant; Stanley Ven; Mrs. Buckingham and Louise.

Yellow: Polly Duncan; Golden Mensa and Marion Sutherland.

Crimson and Bronze: Excelsior; Mrs. Hogben; and Margaret Walker.

A variety that occupies a class for itself is "Mrs. Francis H. Bergen." This is the same type as the Early Flowering but does not come into bloom until the last of October, when most of the Early Flowering types are through blooming. "Mrs. Bergen," is creamy white with Rose-pink shadings and one of the most noteworthy on account of its cast-iron hardiness. Mr. Bergen the originator of this variety told me he had this variety blooming in his garden until November 20 in good condition.

POMPONS

or the Button Type, is perhaps the best known of the entire 'Mum family, and the latest and hardiest of the types, but they are handicapped by the fact that they bloom so late that the frost has destroyed all their foliage before the flowers develop. These Pompons are the favorite of a great many people and the following would be our selection of the *very very best* varieties.

Lillian Doty is quite the largest Pompon ever sent out. This is a beautiful clear pink in color. There is a white sport of this called "White Doty," being introduced this year, that is a wonderful acquisition to the Hardy Garden.

White: White Doty; Queen of the Whites; Jas. Boone; Waco and Myer's Perfection.

Pink: Lillian Doty; Donald and Minta.

Yellow: Jeanette; Wm. Sabey; Golden Climax and Zenobia.

Crimson and Bronze: Julie Lagrevere; Urith and Tiber.

After the plants are through flowering they should be cut down to six or eight inches from the ground and let the leaves drift around them. When they are well covered with leaves place some dry cedar boughs over the leaves to keep them from blowing away. In this way they should come through the winter in perfect condition, if they are planted in a dry location. If the plants are situated in low ground, where the water will cover the crowns or roots stand in water; it would be better to lift the roots in the fall and store them in a cold-frame; cellar or back shed; as the plants will die if left standing in water during the winter.

In the spring when it is time to set out the plants again, break up the clumps into individual plants, and plant in new soil, or a new location. In this way you will have even better success the second year.

The Rose is truly called the "Queen of the Garden," but the Chrysanthemum still holds its own as "Queen of the Autumn," carrying its message of hope and cheer far into the fall when all other flowers are faded and dead!

JOHN WANAMAKER DAHLIA

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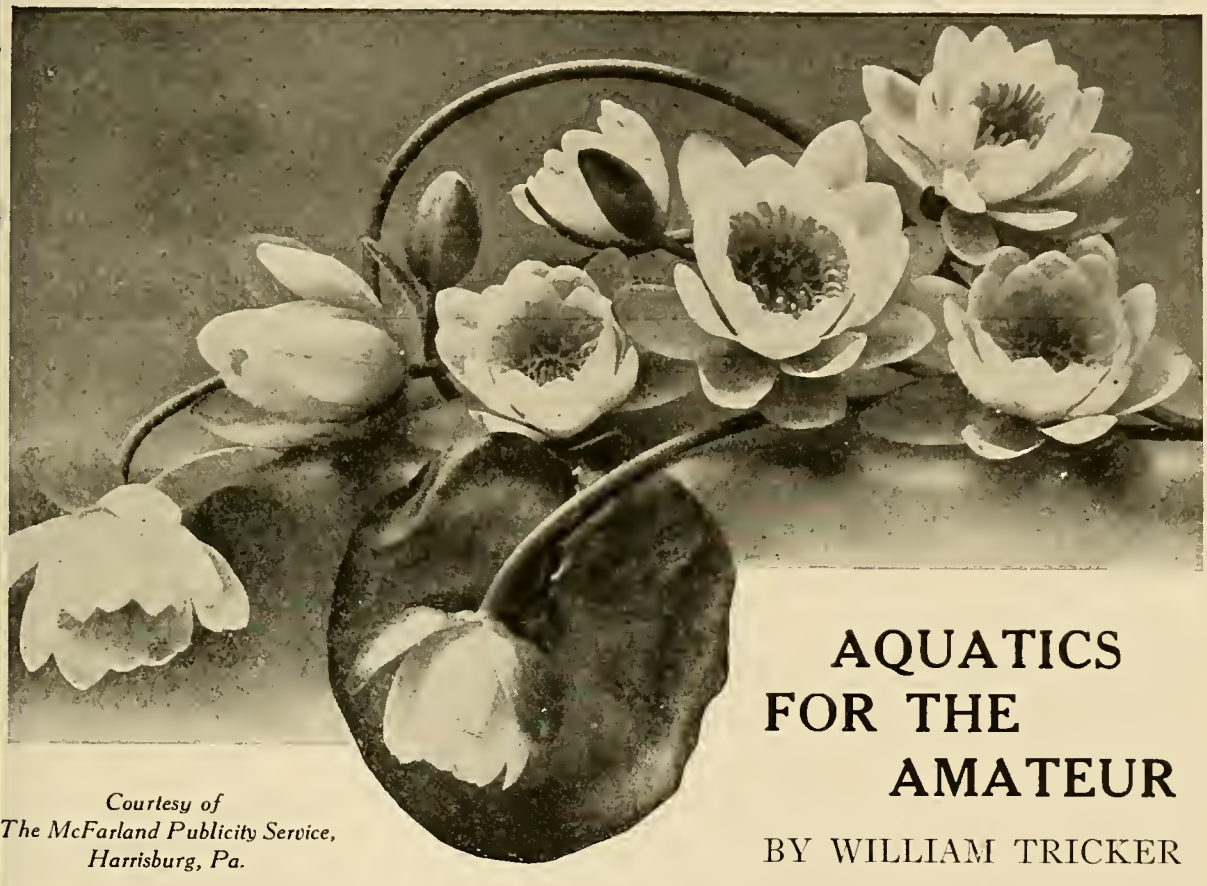

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AQUATICS FOR THE AMATEUR

BY WILLIAM TRICKER

There has been much dispute as to who or what persons are rightly classed as "amateurs." Webster says, "One who cultivates a study or art from taste, without pursuing it professionally." It has been my privilege to meet many such persons who have grown aquatics through taste or love for these most enchanting of flowers, and I am proud to say growers in this class have done more to popularize these flowers than professionals.

Some 30 years ago a medical doctor living at Yarmouthport, Mass., had a grand assortment of these flowers, long before such plants were listed in catalogues in this country. Another popular man in Springfield, Mass., who had a reputation for making the best skates in America, had also a fine collection of Water Lilies, and later donated a park to the city. Another medical doctor, living at Salem, N. C., was the first to grow a Victoria regia outdoors without artificial heat. I would also mention such gentlemen as John N. Gerard, John McElvery, S. C. Nash, W. W. Lee, and others, but I fail to find as many in the field of professionals who have done such work. Many of the worthies I have mentioned are still with us, and we are greatly indebted to them for what they have done to advance interest in aquatics.

The persons mentioned are exceptional, it is true, but there are hundreds of others, amateurs, interested in their gardens, who are making special study of certain plants and flowers until they are successful. To be successful in growing any particular plant or plants, some knowledge must be acquired as

to their habitat, how and where they grow, climatic condition, etc. All our cultivated plants are the progeny of original species, growing in the wild. You find Water Lilies, commonly called Pond Lilies, in a wild state all over the country, and other species in other lands, all growing under like conditions, that is, ponds, where the water is stagnant, or a very slow sluggish stream, where there is an accumulation of silt and humus that is continually being added to by constant showers and decaying vegetable matter. Underneath there is often a stiff clay, or heavy sub-soil. Such places are usually in the full sunshine, seldom, if ever, in shady spots or in the woodland. These simple facts will indicate what course to pursue in cultivating these lovely flowers under artificial conditions.

Let us glance at the different species. The native species are Nymphaea odorata, and N. tuberosa, of which there are several forms, white and occasionally pink. Florida has a yellow species, not hardy in the northern States. The former are vigorous growers, with rambling root-stock; the flowers produce seeds very freely, and where grown, usually these species take possession of a whole pond. The European species are entirely different; the rhizome is thick and not of a rambling nature, plants compact and bushy, flowers plentiful, producing little seed, and the hybrids none. These qualifications render the European varieties, especially the Hybrids, better adapted for general culture by the amateur, who can only find room for a small pond, or a few tubs.

Where space will permit, a pool four, five, or six feet in diameter will prove more serviceable than three or four tubs, for tubs are subject to decay, hoops will rust, etc., although they answer a good purpose while they last. A concrete pool may be constructed by an intelligent laborer, and the size can be regulated by each individual want or wish. It may be constructed by excavating the ground to the desired depth, and size. If the sides are to be nearly straight, make a form of light lumber, the same shape the pool is to be, but twelve inches less in size. This placed in the excavation will allow a space of six inches for the wall. Before running the concrete, have heavy chicken-wire netting arranged, so that when the concrete is set the wire will be in the centre of the wall. Such a re-enforced pool will be indestructible, waterproof and frostproof.

Pools of different shape can be constructed of concrete by using forms, as is done in other concrete structures.

Another form of pool is constructed without forms, and is worth considering. Make the excavation with sloping or flaring sides, and on this arrange the wire netting, making it secure before applying the concrete.

As to materials, the following have proved satisfactory: two bags Portland Cement, three barrows of sand, five barrows of gravel or fine broken stone. The wall need not be more than four inches thick. Have the work done thoroughly and the re-enforcement carefully attended to.

For small pools and tubs, the soil may be placed in the bottom, ten to twelve inches deep, covered with about an inch of coarse sand. The soil should

be rich. Composted sods and cow manure is as good as can be desired, but do not use the materials fresh. Where such is not to be had, the next best thing is good garden soil, with an addition of rotted manure, or sheep manure.

For large pools, use boxes for planting in. I prefer a box three feet by three feet by one foot. This will hold nine cubic feet of soil.

The water supply is no small matter, but any source can be utilized. Before planting, have the boxes in place, and water in the pool, not necessarily more than six inches over the boxes. This is deep enough to plant in. Allow the water to stand a few days before planting, but do not change it; it may ferment and a scum form on the surface, but this will settle, or it can be washed off with the garden hose.

After the concrete work is finished, and before the soil or the boxes are put in, the pool should be washed out, to carry off all caustic properties of the cement, as such is injurious to plant life.

The planting of Water Lilies should not be attempted before the weather is warm and growth is accelerated. This applies to hardy varieties. Tender varieties should not be planted before summer weather is assured, about the first of June to the middle of the month, according to location, either North or South.

The Nelumbium, or Egyptian Lotus, is a most desirable plant. Do not plant early; the weather should correspond with such as recommended for tender Nymphaeas. Much failure can be attributed to early planting and the roots being chilled. The Nelumbiums require a limited space, but plenty of rich soil, or they will take possession of the whole pond.

The after work and attention of the water garden consists chiefly of filling up with water as it evaporates. The plants will be benefited by an occasional spraying during hot, dry weather, especially during a drought, when plants are likely to be covered with dust.

It is quite necessary to have a few gold fish in the water, for they will help to keep the plants clean as well as to destroy all larvæ of mosquitoes.

The margin of the pond can be planted with subaquatic plants, both hardy and tender. There is a large assortment of such plants, suitable for small ponds, or lakes, as the case may be.

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PLANTING FORESTRY

TWENTY YEARS OF ROSE GROWING IN AMERICA

BY GEORGE H. PETERSON

When one has a hobby or cherished calling, it is most gratifying to look backward, and from that point forward, reviewing the progress—the advancement made with the passing of the years. And so, as I bring before me the recollections of more than twenty years in which the Rose has been so much to me, both as an amateur and professional grower, it is with the keenest pleasure that I note its ever-increasing hold upon the people of our country, not only those who love the flower itself, but the yearly increasing number who find that they can *grow* Roses, as well as *buy* them.

It is quite generally conceded that from the time when

> "Homer praised its form of grace,
> Horace its richly tinted face."

the Rose, in the floral kingdom, has held first place in the heart of mankind; and while for many years this country has led the world in the production of forcing Roses, it must be conceded also that we have been far behind European countries in the production of garden Roses. During the past decade, however, an awakening interest in outdoor Rose growing has been quite apparent, and it has been shown that with reasonable preparation and care, we can, at least in certain seasons and periods of the year, grow and delight in quite as wonderful Roses as are grown under the more favorable climatic conditions of European countries.

Doubtless, there are various reasons why this flower has of late taken so great a hold upon our hearts and interests, but it must be conceded that the chief contributing element is the marvelous development of the class of roses known as "Hybrid Teas," a class which gives us, here in the North, continuous bloom from June to October, inclusive.

Obviously, in an article of such limited length as this must necessarily be, I can touch but briefly upon the cultural phase of Rose growing, but there are several excellent and helpful works on the subject, one of which, at least, the beginner should procure. The progressive professional growers of today give in their catalogs the most essential cultural points, and usually in simple, easily understood language; and while there is no "royal road" to Rose growing, yet, if one but starts right, he will be surprised to find how easily good Roses may be grown, even, where necessary, within the limits of a city yard.

Dean Hole, in the most delightful and scholarly book on the Rose ever written, declares that, "To have beautiful Roses in one's garden, one must have beautiful Roses in one's heart." Whether or not this is really essential, I am not prepared to admit—parenthetically, I must observe that I have seen most beautiful Roses growing in the gardens of none-too-pleasant people,—but it is at least a beautiful thought to start with. Keep in mind that the flower of our affection delights, and does its best, in a somewhat cool, rather moist—not heavy rains—atmosphere. Consequently, do not expect as fine Roses during the middle of summer as you get in the early summer and in the autumn, except, perhaps, during a spell of damp, dark weather.

While good Roses can be successfully grown in any well-enriched garden soil, they will succeed best in a rather heavy, clayish loam, to which add an equal combined quantity of stable manure and finely chopped old sods. Thus: in making a bed two feet deep, you will have one foot of soil and six inches each of sods and manure, preferably cow and horse manure combined. A good sprinkling of ground bone, or bone-meal, and air-slaked lime will be helpful, but is not necessary. Mix all together very thoroughly from top to bottom—but do not use a sieve. The broken sods will tend to keep the soil open and porous. Make bed from fifteen inches to three feet deep, according to your purse and the material available.

Place your Rose bed in the open, or where it will get at least a half day's sun, and have it well away from over-hanging trees and shrubbery.

WHEN TO PLANT

Differing from the practice in Europe in this respect, most of the Rose planting in this country is done in the spring, although under certain conditions fall planting has its advantages. I shall assume that you are going to plant dormant, field-grown stock, which is almost exclusively used in Europe, and which ten years of amateur growing convinced me is unquestionably the best. Do not wait until planting time to order, but get your grower's catalog as soon as it is issued, if possible, and send in your order for immediate booking. You will thus get better plants and get them at the right time to plant, which is just as soon as the ground is fit to work, or as soon as the farmer plants early potatoes in your vicinity. The Roses will come to you packed in moss, and care should be exercised to see that the roots do not get dry. As soon as planting is accomplished, the ground should be firmed over the roots with foot pressure, and the wood pruned back at least half. A moderate pruning usually yields a greater number of blooms, at the expense, however, of size. A close pruning yields fewer but larger flowers, and on longer stems.

When planting is done early, and while the ground is moist, no watering will be necessary until plants are started well into growth, or the ground be-

comes quite dry. A mulch, or even stirring of surface soil, will aid in keeping the soil moist beneath, where moisture is needed.

BUDDED OR OWN-ROOT ROSES

The leading, or most successful amateur Rose growers agree, that while own-root plants are best in *theory*, yet, when it comes to results, properly budded stock is in every way superior. Results in growth and bloom are the chief things to consider, and, with but few exceptions, own-root Roses, grown out of doors, particularly in the north, will not give anywhere near the results that budded stock will. The one real objection to budded stock is its liability to send up wild suckers from the roots, but this can easily be guarded against, and, if planted properly, a very small percentage will sucker. Even this objection will soon be done away with by the most progressive growers, since they are now beginning to bud on a stock which throws up practically no suckers, and which infuses wonderful vigor into the cultivated Rose.

INSECTS AND DISEASES.

Lack of space prevents my going into detail on this subject, but, usually, insects and diseases can be readily overcome, and the intelligent grower of today has little to fear from this phase of Rose growing. A good soil, and strong vigorous plants to start with will tend to reduce troubles of this nature to a minimum. Remember, in both plant and animal life, it is the strong that have little to fear and that the weak are usually the first to be attacked and the quickest to succumb.

CLASSES AND VARIETIES.

I shall here be unable to touch upon more than the two chief classes of Roses today—Hybrid Perpetuals and Hybrid Teas. In the former class we get Roses of unusual vigor and hardiness. We also get flowers of the largest size, and it is in this class that we get the most fragrance—but, unfortunately, much cannot be expected in the way of bloom after the main season in June, with a few exceptions.

In the Hybrid Teas we have a class of Roses which give us continuous bloom throughout the entire season, and it is this class which has been developed so largely during the past fifteen years.

I doubt if it would be possible to get two rosarians to agree as to "the best" Roses. In fact I could not well agree with myself on this subject one year after the other, but the following list of one and one-half dozen Hybrid Perpetuals and two dozen Hybrid Teas will be found exceptionally worthy, and successful over a large area, under the varying conditions of soil and climate which are found in this vast country.

HYBRID PERPETUALS.

Baroness Rothschild—Light pink
Capt. Hayward—Red
Clio—Blush
Frau Karl Druschki—White
George Arends—Light pink
George Dickson—Deep crimson
Hugh Dickson—Red
J. B. Clark—Red
Magna Charta—Pink
Madame Gabriel Luizet—Silvery pink
Margaret Dickinson—Blush white
Marshall P. Wilder—Red
Mrs. John Laing—Pink
Mrs. R. G. Sharman Crawford—Light pink
Paul Neyron—Pink
Prince Camille de Rohan—Deepest red
Suzanne Marie Rodocanachi—Deep pink
Ulrich Brunner—Light red

HYBRID TEAS.

Dean Hole—Light pink
Duchess of Wellington—Deep yellow
Etoile de France—Red
Florence Pemberton—Blush white
General McArthur—Bright red
Gruss an Teplitz—Red
Jonkheer J. L. Mock—Pink
Kaiserin Augusta Victoria—White
Killarney—Pink
Lady Alice Stanley—Pink
Lady Ashtown—Pink
La France—Light pink
Laurent Carle—Red
Lyon-Rose—Salmon pink
Mad. Caroline Testout—Pink
Mad. Jules Bouche—White
Mad. Ravary—Yellow
Mad. Segond Weber—Pink
Mrs. Aaron Ward—Yellow
Mrs. A. R. Waddell—Yellow
Pharisaer—White
Radiance—Pink
Souv. de Gustave Prat—Yellow
Souv. du Pres. Carnot—Blush white

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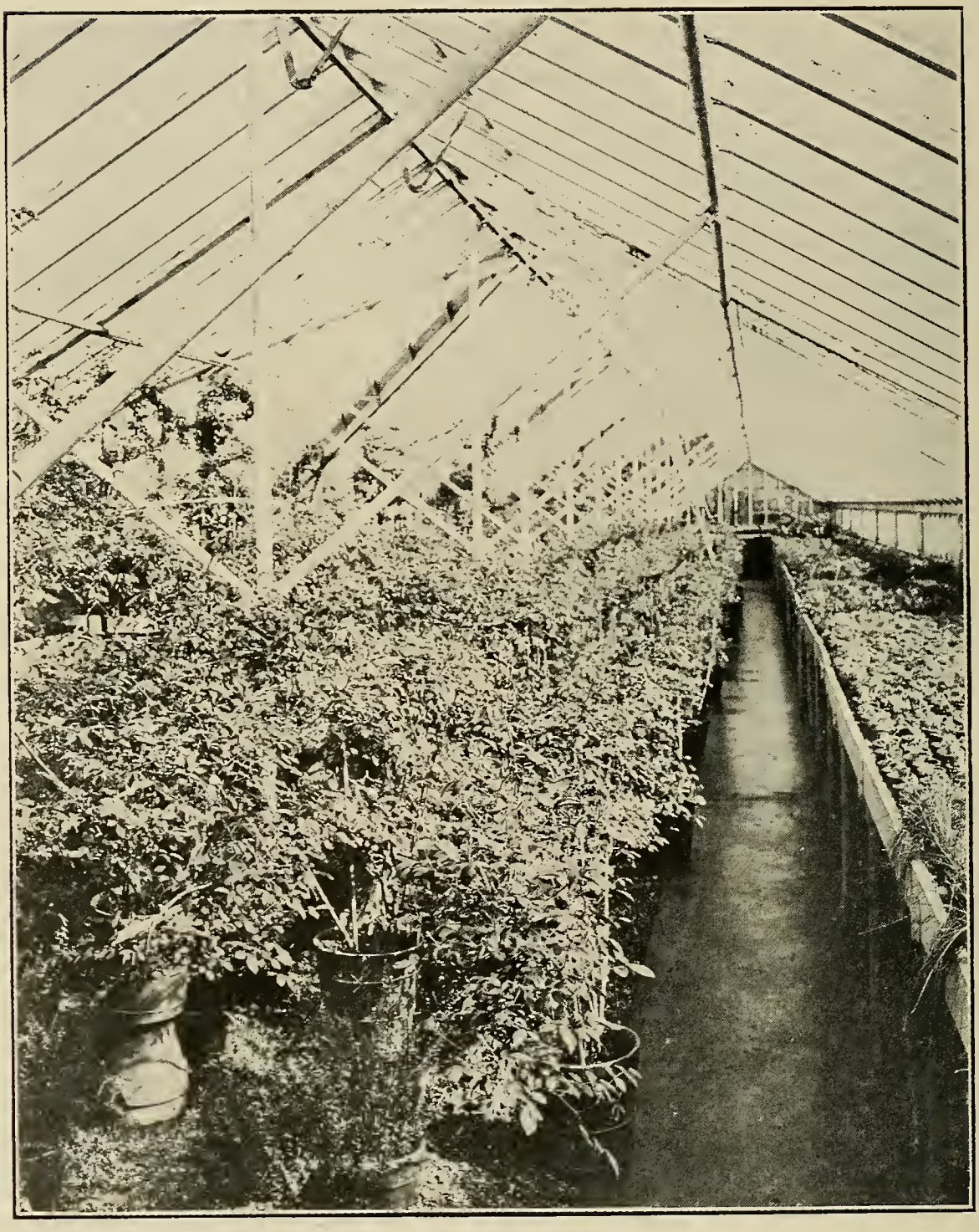
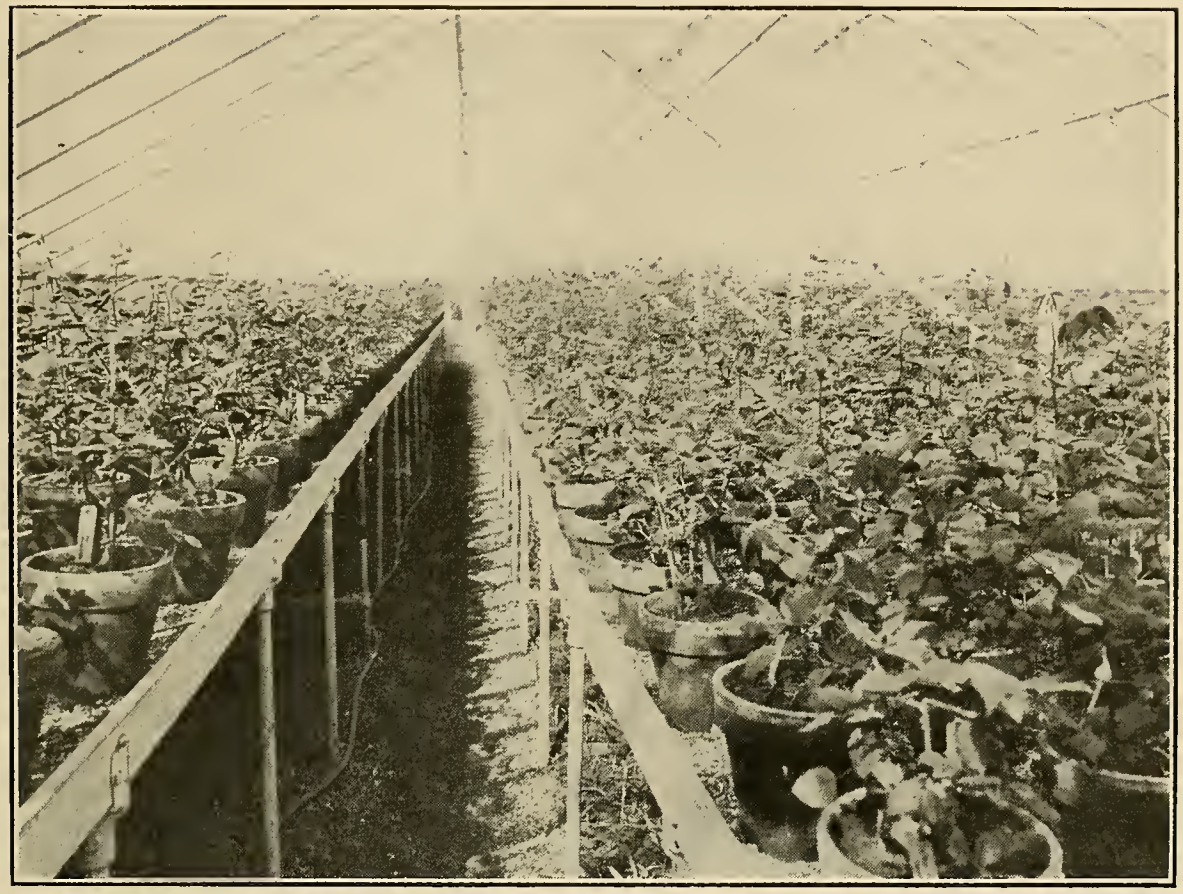


9,000 SQUARE FEET OF GLASS

BY J. OTTO THILOW

The effort and time required for the preparation of so great an event as the National Flower Show is hardly within the grasp of the average person, even though a flower lover. More than a year ago the area of glass, 9000



square feet, as shown above, was set apart and consigned to the care and culture of plants for this great display of flowers and plants.

At the nurseries of one of our leading firms can be seen the great array of Roses which have reached full growth under the most vigilant care and coddling to bring them into matured size. Clothed in their garments of glowing color, they simply await the day of transfer from their congenial surroundings to the display grounds of Convention Hall, that the public may see and compare the labyrinth of color with that of other flowers on exhibition, proving that the newer Roses of latter-day introduction are decked with tones of color far beyond even the dream of the most critical.

One of the most novel and altogether new features of horticultural interest will be the evolution of the Fern, showing the birth of the Fern spore to its fructification and its transformation into the minute growth, followed by its development into plants which begin to show their identity, and then into specimens of the most beautiful and graceful forms. As an item of educational value this will without doubt be a most pleasing feature of the show.

This firm, upon the first note of the advent of the National Flower Show to be held in Philadelphia, made extensive preparations to produce a large area of color in flowers growing naturally upon the plants, and to give an effect equal or better than one can expect only under the best outdoor conditions and with the best care.

ORCHIDS FOR AMATEURS

BY JOHN E. LAGER.

Fortunately the days are over when orchids could only be acquired or grown by very few. The price of these plants in late years has reached a point where they are within the reach of all.

This is, to a great extent, the result of more sound knowledge of how to treat these plants, for while the slogan went around that orchids were superlatively difficult to grow, very few persons ventured to buy or grow them, hence limited numbers only could find sales. Since the nature of orchids has been better understood—in reality it is not different from other plants—the demand has increased greatly, larger quantities are imported yearly from the tropics, and the prices are low, so low indeed that anyone with a little greenhouse or conservatory can afford to grow some.

The variety of orchids is so great that selections may be made for any purpose. The amateur who possesses only a very small greenhouse or conservatory, a space of a hundred square feet or less, say, can grow a few orchids just as well as anything else, as the fundamental principles are the same as with other plants—a certain amount of heat, light, water and fresh air, and also a moderate shading.

A frequent and erroneous idea is that orchids require a high temperature, and continuous saturation with water. True, there are species requiring a high temperature, but they are comparatively few; and as to water, a good rule to go by is to treat them like other plants, that is, let the plants dry out before giving them more water. The time for the maximum amount of water to be administered is while the plants are in growth, or while the plants are making their new shoots, which time is easily recognized by anyone. After the new shoots have completed their growth and the pseudobulbs are finished, the plants require less water.

Fresh air should be admitted on all favorable occasions, without lowering the proper temperature.

The glass should be moderately shaded throughout the year, except during November, December and January, when it may be left clear. In a greenhouse where the temperature is maintained at 60 degrees at night and 65 to 70 degrees in the daytime, a surprisingly large number of species of orchids may be grown; practically all the Cattleyas and a larger number of the Laelias, Oncidiums, Dendrobiums, Vandas and other things may be successfully cultivated here. If Cypripediums are added, they should be placed by themselves on a bench, for they require more water than most orchids, inasmuch as they are never at rest but grow continuously.

Those mentioned above are the most showy and at the same time most useful for cut flowers, but there are also other things highly interesting to an amateur, things that are odd both in shapes and colors. Stanhopeas are very interesting, with their large pendant clusters of flowers, and the several kinds of Platychlinis; Peristeria elata (Holy Ghost Orchid); Oncidium Papilio and Krameriana, or "Butterfly Orchid"; Aerides and Saccolabiums; Coelogynes, such as Dayana and Massangeana, with their large pendant infloresens; also Renanthera Imshootiana, which grows and flowers almost under any treatment and rewards the cultivator with its very large, many flowered racemes of red; and many more.

If for some reason it is more desirable to have the greenhouse at a temperature of say 55 to 58 degrees at night, and 60 to 65 degrees by day, the following may be grown: Cattleya Citrina (Tulip Orchid); Lycaste Skinnerii; Coellogyne Cristata; the handsome "Baby Orchid," Odontaglossum Grande; Odontaglossum Citrosmum and pulchellum; the sweetscented Maxillaria lutea-alba; several Miltonias, such as Candida, Clowesii, Morelliana, and the handsome large Pansy-shaped M. Vexillaria, with pink flowers. Cypripedium Insigne and its many handsome varieties may be grown in this house.

Other things that will do well here are Laelia Anceps and its varieties including the albino forms of same; Dendrobium Nobile and its varieties, and the handsome Dendrobium Thyrsiflorum, with its large bunches of primrose-colored flowers.

The potting of all the above is very much the same. They should be potted in Osmunda fibre (peat) with a very slight addition of live sphagnum moss, with a few lumps of charcoal and crocks worked in here and there, excepting Vandas, Aerides and Saccolabiums, which should be potted in one part moss and one part peat. The same holds good with the Cypripediums, except that for all greenleafed kinds a small part of fibrous loam may be added.

The kinds of receptacles to be used is immaterial. If pots or pans are used, plenty of drainage should be placed in the bottom. If baskets are used, a few pieces of crocks in the bottom is sufficient. It is very important that these plants should be potted *firmly;* they will not thrive if loose in the pots or baskets.

As a parting word, I would say, "grow orchids." They are the most fascinating plants in creation apart from their beauty, and if you begin to grow these plants and watch them as they develop, you will find you have a hobby that is equalled by few other things. I would advise all beginners to commence with species, and as these are mastered hybrids may be added to the collection, the treatment of which in no wise differs from the species, but it opens up the entire treasure house of the orchid Kingdom, which in this way is well nigh limitless.

THE GLADIOLUS—"THE PEOPLE'S FLOWER"

BY ISAAC S. HENDRICKSON

The Rose has its champions by the legion, because everyone loves the Rose—as a Rose, but not everyone can grow the Rose with a pleasing degree of success. Any flower we might name has its lover, or lovers, but for a flower for the people, the common people as well as the elect—a flower that rivals any other as to colors and lasting qualities; a flower that can be grown by the millions having small or large gardens; a flower that for ease of culture is supreme; a flower that is in reach of short or long purse—the GLADIOLUS is indeed "the people's flower."

The Gladiolus has at last come into its own, and however we pronounce the name, the flower itself stands conspicuous at the top of the list as one of the most useful, beautiful and satisfying of all our garden flowers; and blooming, as it does, during August, when there is a dearth of flowers, makes it doubly valuable. Some of the late productions of varieties are really wonderful, and as their propagation has become so general among "growers of flowers for sale," the finest varieties have become within reach of all.

AS TO CULTURE

If you know Gladioli, which term includes the family of varieties, you know how simple their culture is; but for those who are going to try them for the first time, a few words of advice may be appropriate. The bulbs may be planted anytime after the ground is settled in the spring, and by planting at different times, say every fifteen days up to June, a succession of flowers can be had from July until frost. The bulbs require twelve to fourteen weeks to come into bloom.

Spade the ground deep, the deeper the better, and if manure is used, let it be old and very well incorporated with the soil. Then dig a trench, or furrow, and plant the bulbs about four inches apart, either in single or double rows, according to the size of the bulbs, and about four to six inches deep, according to the character of the soil, whether light or heavy. The rows should be about two feet apart, which will permit of easy hoeing, and cutting of the spikes, and I presume you will want to cut the spikes, as the Gladiolus is essentially for cutting flower. Cut the spike when the first bud shows color, the balance will open fine in the house, and show a better color than when left in the sun.

If preferred, the bulbs can be planted promiscuously among shrubs in the hardy border, but they really like a little more "stirring of the earth" than is generally possible in a mixed border.

Almost every seed house now handles Gladiolus bulbs, and they can be procured either under name or in mixtures, the mixtures usually being a little cheaper. By buying named kinds, you get just the color you want; but if you are not particular about this, buy mixtures and enjoy the surprises that await you as each bulb unfolds its treasure. The bulbs are not hardy, and should be lifted in the fall and kept in a frost-proof cellar for the winter.

While the Gladiolus originated in Africa, it has now almost become "the flower for the people of the world," as there is hardly a place where it will not grow and flower. But to America belongs the credit for the high development of the flower at the present time, and while Holland, Germany and England have given us some good things, I firmly believe that America leads the world in the production of vigorous, healthy Gladioli. Some of the best under names are the following:

Shades of White
- Augusta A
- Blanche A
- Peace A
- White Glory A
- Blue Vista A

Shades of Red
- Dazzler A
- Nezinscott A
- Negerfurst E
- Fire King A
- Princeps A
- War A

Shades of Pink
- America A
- Cowee's Dawn A
- Tracy's Dawn A
- Fascinator A
- Panama A
- Haley E
- Wild Rose A
- Taconic A

Shades of Yellow
- Canary Bird A
- Schwaben E
- Victory A
- Sulphur King A
- Niagara A

Shades of Blue
- Baron Hulot E
- Viola A

Variegated
- Mrs. F. Pendleton A
- Scribe A
- Prince of India A

The letter "A" denotes American production, and the letter "E" European production. Every dealer offers you the "best mixture to be had," so I cannot give any advice to you in this direction. But if you are fond of the dainty Nasturtium colors, be sure to try some "Primulinus Hybrids mixed," now being offered by nearly every seed house. These Hybrids run mostly from yellow to orange colors, including some salmon pinks, rosy buffs, creams, etc., in short, every conceivable shade of orange and yellow. The stems are long and graceful, lending themselves to very artistic decorations where "art shades" are desired. These Hybrids arranged in a vase with Baron Hulot (blue) or Fire King (red), present a very striking decoration. Try them and you will be anxious to enlist in the ever increasing army that is fast making the Gladiolus, or "Sword Lily," in reality "the people's flower."

THE GARDEN TO ENJOY

BY MAURICE FULD

There is not a soul in this wide, wide world of ours which does not, for the ultimate goal in life, reach out for that condition of mind which spells "happiness." We simply differ as to how best to reach it.

I claim that the most perfect happiness in life can easily be obtained through the pursuit of gardening; and the fact that gardening is more popular than ever before is because so many men and women have discovered this very secret. Yet I claim that most persons have still to reach the inner sanctum in the realm of gardening, where is to be found the joyous thrills which make happiness complete. When the great host of gardeners once reach this inner sanctum, gardening will no longer be considered a popular fad, but an absolute necessity for a complete and perfect life. I assert that this supreme goal will be reached, and very soon.

This prediction I found on facts—facts so unmistakable that even the blind can "read the writing on the wall."

Why is there to-day such a thirst for knowledge of practical gardening? What is the cause of that miraculous growth of the Garden Club movement? What is it that brings thousands of men and women to theatres to listen to a talk on "Practical Gardening"—and, mind you, they pay for admission?

Do you know that there are three garden clubs in America which are composed entirely of male members?

What has made it possible to give successful flower shows, with attendances unheard of in the past?

All this interest is not because we take hold of gardening, but because gardening takes hold of us.

It is my aim in this humble effort, to present a vision to the "blind"—to those who do gardening, and those who do gardening but imperfectly—and there are very many in this latter category—so as to convince them that there is something of infinite value below the surface of our "fad," something worth all the struggles of the past; and to inspire them with energy and courage to strive on until they, too, sit at that fountain of joy, rest in its refreshing presence, and sip, from its unceasing flow, the precious drops of the elixir of life.

Did you say, dear reader, "Please stop—let me ask you a question?" I knew that you were ready for that question long ago, and to prove to you that I know it, I'll ask it for you: "It is very well for you to say that there is joy in gardening, but how can I, an unexperienced layman, reach the goal you hold before my vision?"

Very well, I will tell you:

No one is ever successful in gardening at first. We gain knowledge through our failures and mistakes. But with each successful step—naturally, each one more successful than the previous one—we begin to realize that we are gradually mastering the secrets of nature. We approach the threshold of that stage where we become attached to our gardens, attached to each individual little plant, which we watch with greater interest, begin to learn its needs and wants, and finally its life is an open book to us.

No real parents were ever taught how to care for their young, because they have lived with it every hour, from the moment of its birth, and from its mere gestures and appearance can they instantly tell what it needs for its sustenance.

Here is the whole secret of successful gardening: Just as soon as we really live with our plants, we nurse within our hearts an instinctive love through which the plant becomes attached to us, so much so that it is part of our life. By a single glance we can instantly tell just what it needs, and the fact that it responds to our treatment and progresses is the first proof that our attachment to the plant is not one-sided, but is reciprocated in a much stronger measure.

You must, and will experience this very feeling, and through it comes to you the first thrill of joy. No man ever put the truth in sweeter words than Dean Hole, when he said: "He who would have beautiful flowers in his garden must have beautiful flowers in his heart. He must love them well and always. He must not only possess the glowing admiration, the enthusiasm and the passion, but the watchfulness, the tenderness and the reverence of love."

It goes without saying that you must be your own gardener; you must do the little things yourself that mean so much to the successful life of a plant. A pail of water, the pulling of a few weeds, the gentle stirring of the soil, a little better food once in a while. All these things mean so much to your children in the garden, for children they are.

Did you ever notice that some are quite misbehaved, at least they don't do just as you expect them to do? But for all that, you love them.

When you have reached the stage when you know your plants, the thrills of joy will be frequent. You will find that you can play with your plants, for they are playful. They will look for your daily visits with the eagerness of a child, they will laugh and chat with you—silently but unmistakably. They will be always grateful, and will work for you with a passion that knows no limit.

These are not delusions or mere fancies, dear reader, but everyone of these revelations must surely come to you also, if you do your gardening in the right way.

Only recently, while visiting a flower lover I was shown with pride a large pot of Lilies of the Valley, which had been in perfect bloom for five weeks and were as handsome as ever. When the owner told me that it was the flower she

loved most, and that there was not a single bell on all the plants with which she was not intimately acquainted, I said to her, "Do you know, then, why these flowers perform such wonderful work for you?" Instantly, the answer came back; "Yes, indeed, their love for me is just as strong as is my love for them, and they dislike parting from me just as much as I would dislike to lose them."

While, so far, I have only shown you the pleasing side of gardening, I know its pitfalls and disappointments equally well, and I would consider it unfair to keep them hidden. But here again, I claim, not all of our failures *should* occur, but they do occur, because there is too little practical guidance and help offered to the beginner in gardening by those who know. And this is not said with any intent of criticism, but merely to show facts as they are. I have discovered that *we* who know a little—please note that I classify myself amongst those accused, but now strive to atone for past errors—have not realized how very, very little the beginner knows, and for fear of hurting his feelings by telling him things he does know, so that he says "Do you think I am devoid of intelligence?" we have invariably made valueless our efforts in guiding others.

It would be much better, to-day, to teach the elementary principles of gardening to adults than to children, and I am sure it would bear better fruit.

To prove that my heart is in the right spot, I will forego the pleasure of dwelling further on the sentimental side of gardening—and here, again, I prove that I can read the minds of my readers, for they have wished it long ago—and now devote the remaining space to the more practical side of the story.

The garden to be really attractive to its owner must be his or her own handiwork, and most of the plants in it must be there on account of individual effort.

Individualism is a wonderful thing. Instantly, upon approach you can tell when a garden has been designed with individual critical taste. No doubt the most elaborate gardens of to-day are those designed by landscape artists, but the individual garden is always the loveliest. There is something about it that appeals to the artist's eye.

What the average gardener is most proud of, is the plant that he can truly call his own, and for this reason I am anxious to show him ways by which he can enjoy more of such things in his garden.

Do you love the Hardy Phloxes? "Yes" you say, and so I want to show you a way by which you can increase a variety at least a hundredfold in a season, from a single clump in your garden, without sacrificing the clump. Go to your garden next October, lift the clump which you wish to increase, wash every bit of soil from its roots, and cut off the long hairlike roots to within an inch of the growing crown. Then set the old plant back again in the ground and it will never know that it has been lifted. Next year it will produce the same results as in the past. The roots which have been cut from the old plant

place on a board and cut them up, like noodles, in pieces about two inches long. Then prepare your coldframe, rake and smoothe it. Upon the surface sow thickly the cut-up rootlets and cover them with an inch of pure building sand. When freezing weather approaches, cover the sand with dry leaves complete to the sash, place the sash on the frame, and then forget it all until the next March. At that time remove the leaves, but retain the sash, and water the sand gently every morning. It will not be long before that sand is alive with young phlox plants, which will soon form a perfect green carpet. Just as soon as the sun becomes stronger, remove the sash during the day but replace it again in the evening. About May 1st carefully lift the young plants and set them out in the garden, in straight rows about a foot apart, and by the middle of July every plant will be in full bloom, but only about 15 inches high. The plants will continue to bloom right through to the fall. Then they should be lifted and placed in their permanent locations. The following year these plants will produce from four to eight healthy shoots, growing to their natural height, and at no other time can one see more luxuriant or healthy plants. And what is more important of all, every plant will be an exact reproduction of its parent.

In a single season you have produced more plants than you know what to do with, and so you have an excellent opportunity of making some of your friends happy.

Now, would you like to increase some of your choicer Oriental Poppies in your garden? I knew you would say "Yes." Well, here is the story:

Directly after your plant has ceased blooming in July, lift it carefully, so as to bring to the surface all of its roots. They are quite different from those of the Phloxes, as they are fleshy and more like young horseradish. Cut these roots, in lengths of about two inches, up to within an inch of the heavy carrot-like root, and plant these pieces directly in the spots where you wish the Poppies to grow, about two inches below the surface, By September you will enjoy a healthy plant above the ground wherever you have planted a piece of root, and the following spring you will have the finest crop of flowers—and, mind you, you need not sacrifice the old plant either, for set back into the ground after the thin roots have been removed, it will live on and replenish the part which you have removed.

Exactly the same operation can be performed with the lovely Anchusa.

A single plant of each of the foregoing should produce an increase of from ten to twenty-five of a kind.

Have you a clump of Michaelmas Daisies in your garden? If so, just lift it, in April, and you will find that instead of possessing one plant you have 25 perfect little plants, each one with a perfect set of roots; and if you plant each one of these youngsters, allowing them a liberal space, at least two feet each, they will give you a veritable cloud of color in the fall.

Have you ever grown Stocks, and enjoyed looking upon a huge cabbage-like plants with the most luxuriant foliage, and until about five minutes before

frost no sign of a flower? Of course, you expected flowers in July, and you would have had them if you had, just before setting the plants into the garden, broken off a little of their heavy roots; in other words, pruned their roots. Try it next spring and watch results.

Is any one of my readers growing a Wistaria which was planted several years ago and has never flowered? Were you ever in an audience where the speaker asked this question, and did you notice how many held up their hands? It is a common occurrence, and yet no literature is found that treats of it. Let me tell you how you can get flowers on that plant of yours. Early in April, lift your plant entirely from its present location, and before setting it back cut back some of every heavy root; in other words, root prune it. The following year you will have flowers.

Do you grow Dahlias, and fail with them? Be assured you are not the only one, but let me suggest to you a novel scheme: Wherever you wish to plant a Dahlia, dig a hole fifteen inches square and deep, and fill up to within three inches of the surface with small pebbles. Set upon these your tubers, and fill in the balance of the hole with more pebbles. Just as soon as the plants are up a foot, spray them every other evening after sundown with a fine mist of "Death to the White Fly" and also moisten the ground with it. You will be amazed at the results.

I could go on forever in this strain, and perhaps you would not object, but the space allotted to me does not permit more.

So by way of farewell, I hope that my few remarks may have fallen as seeds on fertile ground, and may be instrumental in making you a happier gardener.

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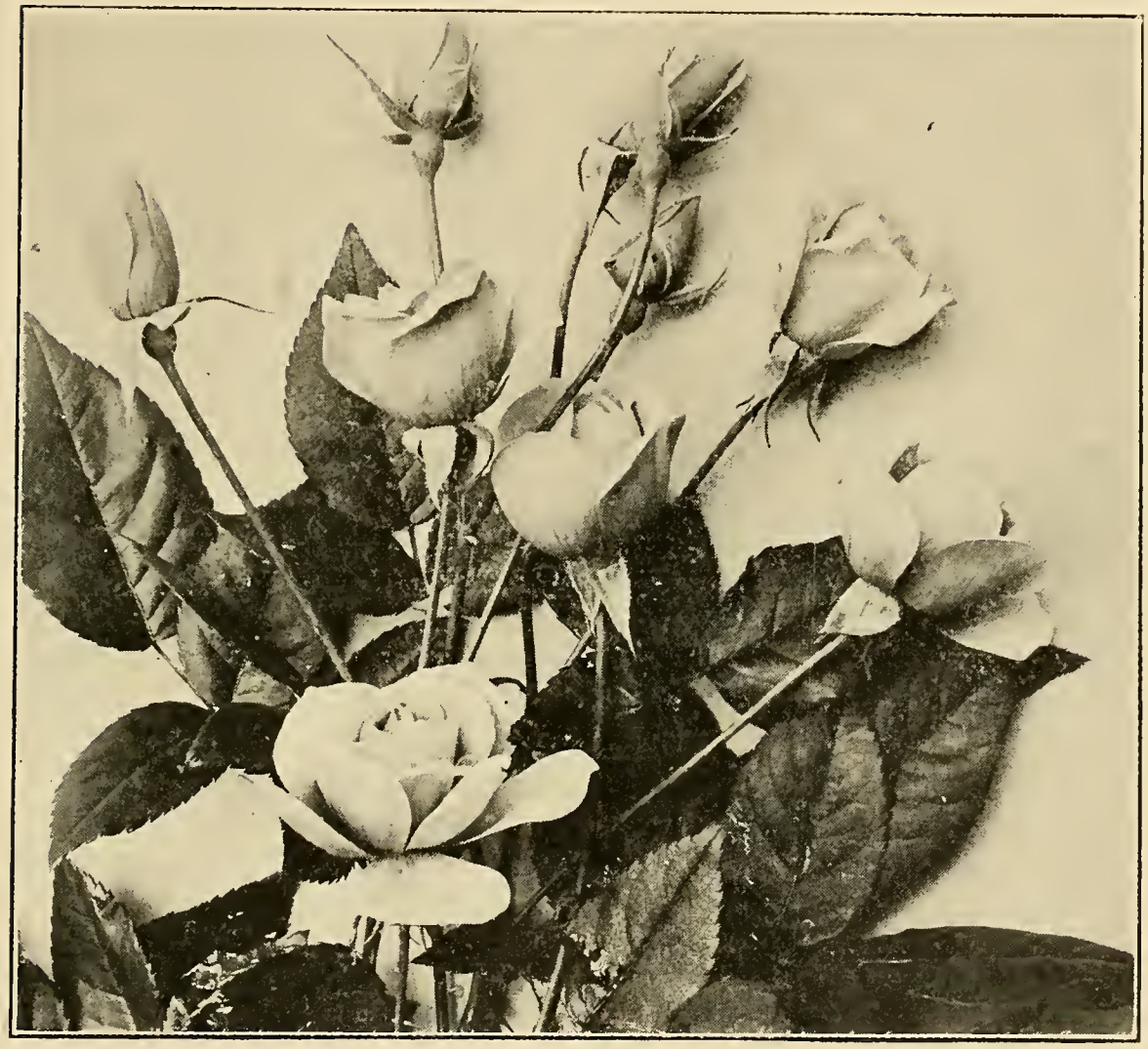

POLYANTHA ROSE

ROSE BREEDING

BY E. A. WHITE
Professor of Floriculture, Cornell University

In his excellent book on "Roses: Their History, Development, and Cultivation," the Rev. Joseph H. Pemberton gives a clear and concise analysis of species. In commenting on this table, Mr. Pemberton remarks: "If we examine the table we shall notice two things: (1) the distance removed from the original species of the hybrid teas, and (2) that there are many species from which little, if any, advance has been made. . . . Does not this fact indicate the wide field still open to hybridists for the production of new roses?"

Until within comparatively recent years, little was known regarding the laws governing heredity in plants, and much yet remains to be learned. In the past, the results which have been attained by hybridists have been largely

those of chance. With the re-discovery of the so-called Mendel's laws in 1900, new light was shed on heredity. Since that time hybridists have conducted their work on a more scientific basis, and wonderful results have been attained with some species of plants. Corn, wheat, tomatoes, and other so-called economic crops have been largely experimented with, and the results to the consuming world have been beneficial in the extreme.

Less systematic breeding has, however, been done with ornamental plants, with which, therefore, there seems a vast field for investigation and experimentation.

There never was a greater need for breeding work with roses than at the present time. People are demanding novelties in all lines of florists' flowers, but especially is there a demand for unusual varieties of roses. This is especially true regarding those varieties grown under glass, or the "forcing" varieties. In this field, the Bride and Bridesmaid held for many years a dominant place; but with the coming of Killarney in its many colors, the older varieties were no longer grown. There is probably no more popular rose today than Ophelia; yet other varieties are close competitors, and newer types are placed on the market each year. The present popularity of the small cluster roses, like Cecile Brunner, George Elgar and Baby Tausenschön, shows a changed public opinion and the Teas and Hybrid Teas no longer hold non-competitive places in commercial growing.

Many men have realized the need of systematic breeding in the rose family, but few have had the perseverance and determination necessary to get results. A few men, however, have given us some desirable varieties of roses, and to these men present-day rosarians owe much. There is a demand for species of roses adapted to American conditions, and these must necessarily be American-bred. The soil and climatic conditions in European countries are quite different from those in America, wherefore many of the species originated in Europe are unsuited for use in this country. We need strains of American roses which correspond to the type of the American carnation.

More breeding work has been done in America on varieties of hardy roses than on the types grown under glass. *Rosa Wichuraiana* and *Rosa rugosa* have, within recent years, furnished a starting-point for breeding experiments which have been a pronounced success. There is still a demand for improved varieties in these groups, but there is even a greater demand for improvement in those varieties which are "forced" under glass.

Breeders of roses certainly have many difficulties to solve. The family is a large one, and contains many species. Among these species there already exists a large number of hybrids, and the blood is so mixed that it is difficult to begin with pure blood of any particular species.

The science of genetics is based on heredity, and while environment and training influence the development of an individual, heritage or "blood" is largely responsible for the traits of character most prominent. Early studies

of plant-breeding were based largely on a study of individual plants. It has been within recent years that interest has arisen in unit characters in individual plants and animals; but with the realization that these characters do occur in all individuals to a greater or less degree, and that they are transmitted to offspring in a rather definite ratio, there has arisen a clearer conception of methods for reproducing desirable characters in the offspring.

It has been stated that in breeding roses there is much complexity. There are many unit characters which must be transmitted to the offspring, and therefore simplicity of action is impossible. Among these unit characters are color, fragrance, size of flower, substance of petals, strength of stem, resistance to disease, character of foliage, and hardiness. To combine all these desirable qualities in one individual, requires most careful selection of parents and painstaking breeding which must necessarily extend over a considerable period of years. The color factor alone is exceedingly complex, as is shown in a most carefully prepared paper on "Heredity of Color in *Phlox Drummondii*," by Dr. A. W. Gilbert, Department of Plant Breeding, at Cornell University and published in the "Journal of Agricultural Research," July 15, 1915. The general principles which govern heredity of color in phlox govern color in roses, although their application is much more complex in the latter case.

The rose is, therefore, not an easy plant to breed and get marked improved results. The period of "watching and waiting" is a long one. In other words, it is a plant of "frequent generations" as are many other species of ornamental plants. After the parents have been crossed, it takes a long time for the seed pods to mature, and after the seeds have ripened they are difficult to germinate. It requires the most careful treatment to get even a fair percentage of germination. The blooming period of the offspring does not follow quickly, and the hybridist has to wait a long period for results. Even when the work has been carried out along modern scientific lines and careful attention has been paid to all principles of genetics, the results are often discouraging.

However, our American men of science are awakening to the possibilities which lie in the rose family, and the future of this plant is promising. Plant-breeders have found corn and wheat wonderfully plastic under scientific development, and the belief is strong that the rose may, in the near future, be developed into types far superior to those of today.

The Lectures

By Men Who Know Will be Interesting

Don't Fail to Hear Them

THE BEST OF THE NEW INTRODUCTIONS FOR OUTDOOR ROSE GROWING

BY GEORGE C. THOMAS, JR.*
Author of "The Practical Book of Outdoor Rose Growing"†

RED RADIANCE ROSE

*It should be noted that Mr. Thomas is devoting the most careful attention to the impartial testing of roses in his extensive private gardens near Philadelphia. His conclusions are impartial, and are, therefore, of especial value. No amateur in America is more earnest or painstaking in working with the rose.—EDITOR AMERICAN ROSE ANNUAL.

†Copyright 1916, by George C. Thomas, Jr.

In giving a list of new roses of most promise, one should understand that new European varieties are shipped to America as such small plants that a two-years' test is required. Sometimes these weak plants will not do well until the third year, and when they winter-kill, duplicates must be tested. For these reasons we cannot recommend the growing of new varieties by the average amateur.

During 1915 we have tested all new varieties issued in Europe by prominent growers. Owing to foreign conditions, some 1914 varieties did not reach us until April, 1915, making the tests less conclusive than usual. Roses of 1912–1913 have been thoroughly tested; data regarding them is conclusive.

The color descriptions which follow are, in most cases, the introducer's.

It will be realized that the following descriptions are for the roses as grown near Philadelphia.

VARIETIES INTRODUCED IN 1912

C. W. Cowan. (Alex. Dickson.) H. T. Good growth, hardy; good foliage, fine stem; medium size, good form, fair lasting qualities; color "warm carmine cerise," tea-rose perfume; thirty blooms in 1915.

Freifrau Ida von Schubert. (P. Lambert.) H. T. Good growth, hardy; fine foliage, good stem; medium size, fair form, lasts well; color "warm crimson-red," delicious perfume; thirty blooms in 1915.

Grange Colombe. (P. Guillot). H. T. Good growth, very hardy; good foliage and stem; medium size, form very good, lasts well; color "creamy white with salmon-yellow-fawn center," fifty-seven blooms in 1915.

Louise Catherine Breslau. (Pernet Ducher.) H. T. Good growth, hardy; beautiful foliage, lost early, fair stem; medium size, fair form, fair lasting qualities; color distinct "coral-red to shrimp-pink, shaded reddish coppery orange and chrome-yellow"; thirty-three blooms in 1915.

Mrs. David Baillie. (Hugh Dickson.) H. T. Good growth, very hardy; fair foliage, good stem; spring blooms large, perfect form, lasts well; color "madder-carmine"; fifty-two blooms in 1915.

Mrs. Herbert Hawksworth. (Alex. Dickson.) H. T. Growth good, hardy; good foliage and stem; medium to large size, lasts well; color "ecru on milk-white," tea-rose perfume; thirty blooms in 1915.

Ophelia. (Wm. Paul.) H. T.* Growth good; fine foliage, stem good; perfect form, lasts well; color beautiful—"salmon-flesh, shaded with rose"; twenty-seven blooms in 1915.

Sunburst. (Pernet Ducher.) H. T.* A collector's rose. Fair growth, not hardy; beautiful form; color "cadmium-yellow with yellow-orange center;" thirteen blooms in 1915.

*Ophelia is the rose introduced to the commercial trade by the E. G. Hill Co., which is having a notable success as a cut-flower variety. Sunburst is also found to be worth while forcing.—Editor American Rose Annual.

Among the Dwarf Polyanthas may be noted:
Ellen Poulsen. (Poulsen.) "Dark brilliant pink."
Rödhätte. (Poulsen.) "Clear cherry-red."

VARIETIES INTRODUCED IN 1913

Elli Hartmann. (Nicola Welter.) H. T. Very good growth, very hardy; good foliage and stem; medium size, blooms well, fair form, lasts well, tea perfume; color "old golden yellow."

Killarney Queen. H. T. Sport of the well-known Killarney; slightly brighter, but having some characteristics; thirty-four blooms in 1915.

Lady Dunleath. (Alex. Dickson.) H. T. Has improved greatly since 1914. Good growth, hardy; good foliage, fair stem; medium size, blooms well, beautiful in bud form, lasts well; color "ivory-cream-white to egg-yolk," delicately perfumed.

Madame Charles Dubreuil. (P. Guillot.) H. T. Strong growth, good foliage and stem; medium size, good form, lasts well; color "salmon-rose; shaded carmine"; thirty-nine blooms in 1915.

Madame Edouard Herriot (Daily Mail). (Pernet Ducher.) Pernetiana; sometimes listed as a Hybrid Austrian Brier. The greatest novelty; fine growth, very hardy; very beautiful foliage, lost early, stem good; medium size, good form, lasts well; color distinct—"coral-red shaded yellow and bright rosy scarlet, passing to prawn-red;" twenty-five blooms in 1915.

Mevrouw Dora Tets. (M. Leenders.) H. T. Collector's rose. Hardy, fair growth; fair form, shy bloomer; most distinct shade of "deep velvety crimson."

Mrs. Forde. (Alex. Dickson.) H. T. Good growth, very hardy; fair foliage, good stem; medium to large size, blooms well, good form, lasts well, fragrant; color "deep carmine-rose, on delicate rose-pink, clear chrome-yellow at base of petals."

Mrs. T. Hillas. (Pernet Ducher.) H. T. Fair growth, hardy; fair foliage, good stem; medium size, fair bloomer, beautiful form, lasts well; color "chrome-yellow."

Primerose. (Soupert & Notting.) H. T. Fair growth, hardy; good foliage and stem; large size, beautiful form, lasts well; color distinct—"melon-yellow during summer, early spring and fall having apricot shadings;" ten blooms in 1915.

Queen Mary. (Alex. Dickson.) H. T. A collector's rose. Weak growth; beautiful color—"zoned deep bright canary-yellow, crayoned deep pure carmine," very fragrant; eight blooms in 1915.

Willowmere. (Pernet Ducher.) H. T. Fine growth, hardy; fair foliage, good stem; medium size, beautiful form, lasts well; color "rich shrimp-pink, shaded yellow in center"; twelve blooms in 1915.

The novelties of 1914 which promise best are:

Dolly Varden. (Paul & Son.) H. Rugosa. "Light apricot-pink to yellow."

Cecile Custers. (M. Leenders.) H. T. "Lilac-rose to deep rose-pink."

Countess Clanwilliam. (Hugh Dickson.) H. T. "Delicate peach-pink, edged with deep cherry-red."

Frau Bertha Kiese. (Kiese & Co.) H. T. "Pure golden yellow."

Frau Math. Nochl. (N. Welter.) H. T. "Lemon-yellow."

Josephine. (Paul & Son.) H. T. "Rosy flesh to salmon-yellow."

Killarney Brilliant. H. T. Sport of the well-known Killarney; much darker in color, but having same characteristics.

Lady Plymouth. (Alex. Dickson.) T. "Deep ivory-cream, faintly flushed."

Margherita Croze. (Ketten Bros.) H. T. "Carmine-purple, changing to purple-rose, shaded deep rose-pink."

Mrs. Charles Reed. (E. J. Hicks.) H. T. "Pale cream, tinted deep peach, to soft golden yellow."

Urania. (M. H. Walsh.) H. P. "Bright crimson."

Waltham Scarlet. (Paul & Son.) H. T. "Crimson-scarlet."

The latest novelties in Climbing Hybrid Teas are *Climbing Richmond* (Alex. Dickson); *Climbing Madame Melanie Soupert* (J. Burrell & Co.); and *Climbing Gruss an Teplitz* (Conard & Jones).

The newest of the other Climbers are *Mary Lovett*, one of Dr. Van Fleet's seedlings, "pearly white;" Walsh's *America*, "delicate pink shading to white"; and *Purity*, a white climber introduced by Hoopes Bro. & Thomas Co.

We have tested some few 1915 roses for six months. Most promising are:

Jacque Poscher. (Pernet Ducher). H. T. Light yellow.

Madame Colette Martinet. (Pernet Ducher.) H. T. "Old-gold-yellow, shaded orange-yellow."

In addition, there are two seedlings of Chateau de Clos Vougeot: *Hoosier Beauty* (Dorner), H. T.; and *Admiral Ward* (Pernet Ducher), H. T. We hope that the latter will prove as good a dark rose as the well-known Mrs. Aaron Ward has proven a yellow. *Constance* (Pernet Ducher), A. B., has been well recommended.

For two years a number of climbers have been introduced which are claimed to be perpetual bloomers. One of these flowered here—Pemberton's *Moonlight*, giving good June bloom and a number of blooms thereafter; but the foliage mildews; color here, pure white; single. Pemberton has also introduced the following as everblooming climbers: *Ceres*, *Galatea* and *Winter Cheer*. Paul, Leenders and Lambert catalogue new everblooming climbers, which of course are not yet tested.

There are several new men working on hybridization, but Father George Schoener, of Portland, Oregon, is doing splendid work. We trust to see his creations on the market.

TIME FOR JUDGING
AMERICAN ROSE SOCIETY

PRIVATE CUT ROSES—Monday, March 27, 2 P. M.

Messrs: Admiral Aaron Ward, Roslyn, L. I., N. Y.
Eugene Dailledouze, Flatbush, N. Y.
Victor Groshens, Roslyn, Pa.

COMMERCIAL GROWERS—Monday, March 27, 2 P. M.

Messrs: Emil Buettner, Park Ridge, Ill.
John H. Dunlop, Toronto, Ontario.
William L. Rock, Kansas City, Mo.

25 CLASS—Monday, March 27, 2 P. M.

Messrs: Frank H. Traendley, New York City.
Fred. Burki, Pittsburgh, Pa.
Robert Craig, Philadelphia, Pa.

PLANTS—Saturday, March 25, 1 P. M.

Messrs: Philip Brietmeyer, Detroit, Mich.
Alex. B. Scott, Sharon Hill, Pa.
George C. Thomas, Jr., Philadelphia, Pa.

ROSE DISPLAY AND RETAILERS—Thursday, March 30, 2 P. M.

Messrs: A. B. Cartledge, Philadelphia, Pa.
James Forbes, Portland, Oregon.
W. J. Palmer, Buffalo, N. Y.

MUSICAL ATTRACTIONS

HUMMEL

AND HIS VETERAN CORPS BAND

SILAS E. HUMMEL, Conductor BERTHA BRINKER D'ALBITES, Contralto

SATURDAY, MARCH 25TH—AFTERNOON

1. Overture, Orpheus in Der Unterwelt ..... *Offenbach*
2. Suite in Four Parts (Atlantis) ..... *Safranek*
   1. Nocturne and Morning Hymn of Praise.
   2. A Court Function.
   3. The Prince and Aana.
   4. The Destruction of Atlantis.
3. Selection from Carmen ..... *Bizet*
4. Polonaise—Masken ..... *Faust*
5. Contralto Solo (Love, Here is My Heart) ..... *Silesu*
   BERTHA BRINKER D'ALBITES
6. Popular March, Along the Rocky Road to Dublin ..... *Grant*
7. Fantasia (Arabesque) ..... *Olker*

8. Czardas' Last Love. (A theme on an old Hungarian Song)..*Brahms*
9. Concert Waltzes, Wedding of the Winds.....*Hall*
10. March, The Glory of the Yankee Navy.....*Sousa*

SATURDAY, MARCH 25TH—EVENING

1. Overture. Concert in F.....*Kalliwoda*
2. Suite de Ballet (Antony and Cleopatra).....*Gruenwald*
   (a) In the Arbor.
   (b) Dance of the Nubians.
   (c) Solo Dance.
   (d) Antony's Victory.
3. Gems from Tannhæuser.....*Wagner*
4. American Sketch (Down South).....*Myddleton*
5. The Merry Lark (A love episode in Flowerland).....*Bendix*
6. Contralto Solo (Carmena).....*Wilson*

   Bertha Brinker d'Albites
7. The Dying Poet.....*Gottschalk*
8. Airs from the Comic Opera (Sweethearts).....*V. Herbert*
9. Caprice (The Awakening of the Lion).....*Kontski*
10. March, Stars and Stripes Forever.....*Sousa*

SUNDAY, MARCH 26TH—AFTERNOON

1. Overture, Stabat Mater.....*Rossini*
2. The Dragon Fly.....*Strauss*
3. Gems from the Bohemian Girl.....*Balfe*
4. Hymns sung in the American Churches.....*Beyer*
5. Scenes Pittoresques.....*Massenet*
   1. Marche.
   2. Air des Fleurs.
   3. Angelus.
   4. Fête Bohème.
6. Contralto Solo (Selected)

   Bertha Brinker d'Albites
7. Excerpts from Maritana.....*Wallace*
8. (a) Hearts and Flowers.....*Tobani*

   (b) Celebrated Minuet.....*Paderewski*
9. Potpourri, Bouquet of Melodies.....*Meyrelles*
10. March, The Philanthropist.....*Theis*

SUNDAY, MARCH 26TH—EVENING

1. Overture, Beautiful Galatea ..... *Suppé*
2. Gems from the Popular Comic Operas ..... *Arr. by Moses*
   Red Hussars, Paul Jones, and Poor Jonathan
3. Five Characteristic Dances ..... *Sarakowski*
   1. Hungarian.
   2. Polish.
   3. Spanish.
   4. Slavonic.
   5. German.
4. Fantasia, Ein Marchin ..... *Bach*
5. Airs from the Red Mill ..... *V. Herbert*
6. Contralto Solo (Selected)
   BERTHA BRINKER D'ALBITES
7. A Summer's Night in Norway ..... *Willmers*
8. Gloria from Twelfth Mass ..... *Mozart*
9. Madschen und der Spule ..... *Suppé*
10. March, National Spirit (New) ..... *Hummel*

MONDAY, MARCH 27TH—AFTERNOON

1. Overture (William Tell) ..... *Rossini*
2. Melodies from Faust ..... *Gounod*
3. Patrol, The Blue and the Gray ..... *Dalby*
4. Gems of Stephen Foster ..... *Tobani*
5. Musical Scenes from Switzerland ..... *Langey*
   1. Rustic Pictures.
   2. Peasant Dance.
   3. The Alphorn.
   4. The Yodler.
6. Gems from the Opera, La Traviata ..... *Verdi*
7. Contralto Solo (Selected)
   BERTHA BRINKER D'ALBITES
8. Mazurka de Concert, Memories of Vienna ..... *Bendix*
9. Medley of Popular Songs ..... *Remick*
10. March, The Philanthropist ..... *Theis*

MONDAY, MARCH 27TH—EVENING

1. Overture, Jubel ..... *Weber*
2. Tone Pictures from the North and South ..... *Bendix*

3. Concert Waltzes from The Singing Girl ..... *V. Herbert*
4. Wotan's Abschied und Feuerzauber, Die Walküre..... *Wagner*
5. Selection from the Comic Opera The Firefly ..... *Friml*
6. Contralto Solo (Love, Here is My Heart)..... *Silesu*

BERTHA BRINKER D'ALBITES

7. Suite de Ballet (Coppelia) ..... *Leo Delibes*
   1. Fanfare et Marche, de la Cloche.
   2. Valse des Heures.
   3. Musique des Automates.
   4. L'Hymen.
   5. Intro. et Valse, de la Poupée.
   6. Marche des Guerrières.
   7. Czardas.
8. Characteristic, The Village Bells..... *La Vore*
9. Dance of the Skeletons..... *Levire*
10. March of the Veteran Corps..... *Harris*

TUESDAY, MARCH 28TH—AFTERNOON

1. Overture, Fest..... *Leutner*
2. Gems from Rigoletto..... *Verdi*
3. (a) Intermezzo, Ariadne..... *Voelker*
   (b) Paraphrase, Loreley ..... *Nesvadba*
4. Descriptive, Village Life in Ye Olden Time..... *Le Thier*
   Night. The Cock Crows. Sunrise. Astir in the Village. Children going to School. The Blacksmith Shop. The May Queen. The Maypole Dance. The Curfew Bell Rings. The Village Choir Sings. And the Moonlight Lovers get Serenaded.
5. Original Fantasia, Gypsy Life..... *Le Thier*
6. Contralto Solo (Selected)

BERTHA BRINKER D'ALBITES

7. Selection, His Honor the Mayor..... *Edwards*
8. Concert Waltzes, Under Palms and Flowers..... *Stasny*
9. Gems from the Opera Aïda..... *Verdi*
10. March, Our Navy..... *Gaugler*

TUESDAY, MARCH 28TH—EVENING

1. Overture, Morning, Noon and Night in Vienna..... *Suppé*
2. Ballet Music from La Reine de Saba ..... *Gounod*
3. Airs from the Comic Opera Wonderland ..... *Herbert*

4. Concert Waltzes (Blue Danube) ..... *Strauss*

5. Descriptive, A Day at West Point ..... *Bendix*

1. Six A. M.
2. Assembly.
3. Devotional Exercises.
4. Adjutant's Call.
5. Dress Parade.
6. Benny Haven's.
7. Taps—Lights Out.
8. Maestoso Grandioso.
9. Yankee Doodle.

6. Contralto Solo—Maritana, Gay Gitana ..... *Levey*

BERTHA BRINKER D'ALBITES

7. A Hunt in the Ardennes ..... *Marie*

8. (a) Dance of the Bayaderas, from Feramors ..... *Rubinstein*
   (b) Dance of the Hours, from La Gioconda ..... *Punchielli*

9. Fantasia, Hungarian ..... *Moses*

10. Popular March ..... *Snyder*

WEDNESDAY, MARCH 29TH—AFTERNOON

1. Overture, Stabat Mater ..... *Rossini*

2. Scenes Pittoresque ..... *Massenet*

1. Marche.
2. Air de Ballet.
3. Angelus.
4. Fête Bohème.

3. Patrol, The Blue and the Gray ..... *Dalby*

4. Gems from Il Trovatore ..... *Verdi*

5. Concert Waltzes, The Skater ..... *Waldteufel*

6. Contralto Solo (Love, Here is My Heart) ..... *Silesu*

BERTHA BRINKER D'ALBITES

7. Selection from Samson and Delilah ..... *Saint-Saëns*

8. Novelette (Chanticleer Cackles) ..... *Alford*

9. Before the Footlights ..... *Bendix*

10. Popular March, Circus Day in Dixey ..... *Gumble*

WEDNESDAY, MARCH 29TH—EVENING

1. Overture, Hunting for Luck ..... *Suppé*

2. Dance Suite ..... *Tschakoff*

1. Sambo's Holiday.
2. Cossack Revels.
3. Pekoe Dance.
4. Valse Russe.

3. Selection (Maid Marian) ..... *De Koven*

4. Waltzes, On the Beautiful Rhine ..... *Keller Bela*

5. Contralto Solo (Selected) ..... *Silesu*
BERTHA BRINKER D'ALBITES
6. The Mouse and the Clock ..... *Whitney*
7. Airs from the Musical Fantasy Woodland ..... *Luders*
8. Intermezzo, Pas des Fleurs ..... *L. Delibes*
9. Gems from Amorita ..... *Czibulka*
10. March, Washington Grays ..... *Grafulla*

THURSDAY, MARCH 30TH—AFTERNOON

1. Overture, Fra Diavolo ..... *Myrelles*
2. Grand Selection (Méfistofèle, from A. Boito's Opera) ..... *Tobani*
3. Invitation à la Valse ..... *Weber*
4. Caprice, Blue Violets ..... *Eilenberg*
5. Suite—Espagnole, La Feria ..... *Lacome*
   1. Los Taros.
   2. Serenade, La Reja.
   3. La Zarzuela.
6. Contralto Solo (Selected)
BERTHA BRINKER D'ALBITES
7. Songs of the Nation ..... *Lampe*
8. Gems from C. N. von Weber's Opera Previosa ..... *Kitschner*
9. Introduction and Bridal Chorus (Lohengrin) ..... *Wagner*
10. March, La Fornarinette ..... *Valverde*

THURSDAY, MARCH 30TH—EVENING

1. Overture, Semiramide ..... *Rossini*
2. Waltzes "Génée" (From the Soul Kiss) ..... *Levi*
3. Reminiscences of Ireland ..... *Godfrey*
4. Polonaise, Presidential ..... *Sousa*
5. Scenes Descriptive of a Young Man's Call on His Girl ..... *Reeves*

   Synopsis: The young man goes to see his girl, whistling gaily on the way. Arriving at the house, he rings the bell. "Why, how do you do?" "Very well, I thank you; how are you?" Cordially greeting, they indulge in a little waltz. More greeting. He sings, "Believe Me, of All Those Endearing Charms." An unexpected serenade. The serenaders invited in and have a jolly time, including a clog dance on the kitchen floor. After they retire, she sings, "I Cannot Say Good-bye;" he joins in a duet. One more kiss, interrupted by the steeple clock. The old man appears; consternation and rapid exit.

6. Contralto Solo (Selected)
BERTHA BRINKER D'ALBITES
7. The Dance of the Serpents ..... *Boccaasi*
8. Medley of Popular Songs ..... *Fiest*
9. Concert Polonaise ..... *Beissig*
10. Gems from Pixley and Lauder's Musical Comedy King Dodo .. *Mackie*

FRIDAY, MARCH 31ST—AFTERNOON

1. Overture, Crown Diamonds ..... *Auber*
2. Second Mazurka ..... *Godard*
3. Selection, The Monks of Malabar ..... *De Koven*
4. Spanish Dances ..... *Maszkousky*
5. Gems from Il Trovatore ..... *Verdi*
6. Contralto Solo (Selected)
BERTHA BRINKER D'ALBITES
7. Ballet music from Faust ..... *Gounod*
8. Descriptive Fantasia (A Vision of Salome) ..... *Lampe*
9. Concert Waltzes, Wild Roses ..... *Childs*
10. Popular Medley of Songs ..... *Fiest*

FRIDAY, MARCH 31ST—EVENING

1. Overture, The Siege of Rochelle ..... *Balfe*
2. Grand Selection of Scotch Medodies ..... *Godfrey*
3. Concert Waltzes, La Reine de la Mer ..... *Sousa*
4. Scene from the Niebelungen Ring ..... *Wagner*
5. Patriotic Airs from Two Continents ..... *Rollison*
6. Contralto Solo (Love, Here is My Heart) ..... *Silesu*
BERTHA BRINKER D'ALBITES
7. Gems from Simon Boccanegra ..... *Verdi*
8. Polonaise (On Mountain Heights) ..... *Kiesler*
9. Melodies from the Comic Opera Foxy Quiller ..... *De Koven*
10. March, The Occidental ..... *Sousa*

SATURDAY, APRIL 1ST—AFTERNOON

1. Selection from Maronco's Ballet (Excelsior) ..... *Millards*
2. Concert Waltzes (Artist Life) ..... *Strauss*
3. Popular Songs ..... *Remick*
4. Gems from Tannhæuser ..... *Wagner*
5. Characteristic Suite ..... *Gruenwald*
   1. Pomposity.
   2. Simplicity.
   3. Coquetry.
   4. Sincerity.
6. Contralto Solo (Carmena) ..... *Wilson*
   BERTHA BRINKER D'ALBITES
7. American Sketch (Down South) ..... *Myddleton*
8. Scène de Procéssion ..... *Volker*
9. Overture, Petter Schmall ..... *Weber*
10. Ballet Egyptien ..... *Luigini*

SATURDAY, APRIL 1ST—EVENING

1. Overture, Daughter of the Regiment ..... *Donizetti*
2. Selection from Faust ..... *Gounod*
3. Humoresque (Aux Trois Suisses Polka) ..... *Bonnechope*
4. Airs from Comic Opera (Sweethearts) ..... *Herbert*
5. Concert Waltzes, Wilhelmina ..... *Hall*
6. Contralto Solo (Selected)
   BERTHA BRINKER D'ALBITES
7. Invocation to Battle (Rienzi) ..... *Wagner*
8. Echoes from the Opera ..... *Tobani*
9. Gavatine from the Barber of Seville ..... *Rossini*
10. Hummel's Military March ..... *Giroux*

SUNDAY, APRIL 2ND—AFTERNOON

1. Overture, Rossini's Stabat Mater ..... *Rossini*
2. Selection from Doris ..... *Cellier*
3. Popular Largo ..... *Hændel*
4. Gems from the Bohemian Girl ..... *Balfe*

5. Religious Meditation (In the Great Beyond) ..... *Brooks*
6. Contralto Solo (Selected)
   BERTHA BRINKER D'ALBITES
7. (a) Musical Scenes from Spain ..... *Langey*
   (b) Characteristic, On Tiptoe ..... *Hosmer*
   (c) Polka Caprice ..... *Perlet*
8. Gloria from Twelfth Mass ..... *Mozart*
9. Fantasie Arabesque ..... *Olker*
10. March, National Spirit ..... *Hummel*

SUNDAY, APRIL 2ND—EVENING

1. Grand Pastoral and Hunting Fantasia (Le Fremersberg) ..... *Godfrey*

   Synopsis: The Margrave's horn echoed by the mountain is heard summoning the huntsmen. The fanfare, heard for the first time in the distance, draws nearer, indicating their approach. Signal for the hunt to commence. During the rustic scene which follows the horns are heard both near and in the distance. Song of the country folk (solo with refrain and dance). During dance a storm approaches; wind rises, and the peasants' dance becomes more animated. A peal of thunder stops the dance. The peasants rush shrieking away to seek shelter. The lightning flashes; the storm grows in intensity. At last it bursts forth in full fury—rain falls in torrents; thunder crashes. The Margrave, who has been overtaken by the storm, is heard crying for help in vain; the noise of the storm drowns his appeal. Overcome by weariness, the Margrave falls to the ground. Suddenly he hears the Monastery bell and the chant of the monks. Following the sound, he finds the Fremersberg. The storm ceases, and the retainers, who have been seeking the Margrave, find him in the Monastery. All join joyfully in the Te Deum.

2. Suite de Concert, L' Arlesilum ..... *Bizet*
   1. Prelude.
   2. Minuetto.
   3. Adagietto.
   4. Le Carillon.
3. Selection from Faust ..... *Gounod*
4. The Dying Poet ..... *Gottschalk*
5. Hymns Sung in American Churches ..... *Beyer*
6. The Flying Artillery ..... *Bergenholtz*
7. Contralto Solo (Selected)
   BERTHA BRINKER D'ALBITES
8. Concert Waltzes, Morning Journals ..... *Strauss*
9. Ecce Sacerdas ..... *Arr. by Harris*
10. March (The Picadore) ..... *Sousa*

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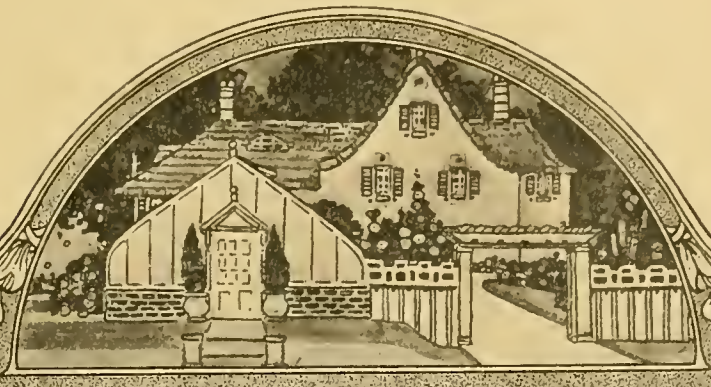

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They place us in the minds of our associates.

Not that a ring from Tiffany's costs any more than one from Bunch & Company's: but who is this firm of Bunch? Everybody knows Tiffany prestige.

And so, when it comes to your greenhouse; prideful possession is a fact not to be ignored.

Our houses have over half a century's prestige back of them.

We should be glad to make an appointment with you, or be pleased to receive your request for our catalog.

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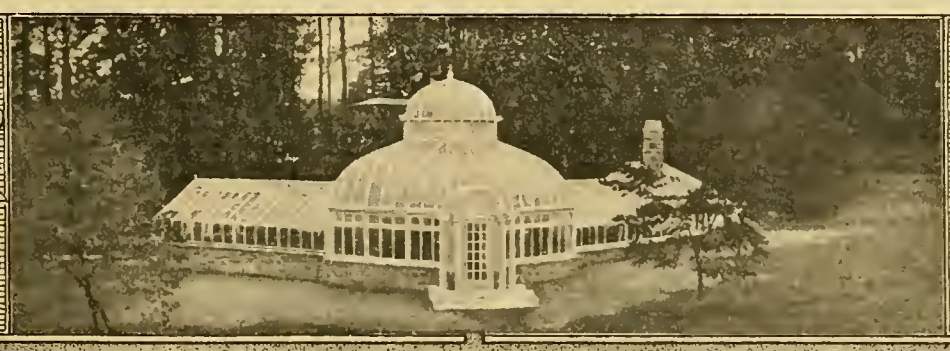

LORD & BURNHAM CO.

Burpee Seeds Grow

A Few Words to Our Friends After Forty Years

FOR forty years we have rendered faithful service. For forty years we have tried to make each year's service more nearly ideal. This untiring effort has built for us not only the World's Largest Mail Order Seed Business, but also a world-wide reputation for efficient service and undisputed leadership.

Confidence is the one thing that makes possible the commerce of the world. It is the greatest factor that enters into a purchase of seeds, because you are not buying a finished product, but only the means by which your garden may be either a pronounced success or a partial failure. When you buy Burpee's Seeds the element of doubt is removed so far as is possible by human care. The confidence of many thousands of pleased and permanent customers is maintained by the Burpee Idea of Quality—first to give rather than get all that is possible.

More opportune than anything we ourselves may say about Burpee's Seeds are the many remarkable things our thousands of customers and friends have said and continue to say about them.

The Fortieth Anniversary Edition of Burpee's Annual

"The Leading American Seed Catalog" for 1916

is unlike any other. It tells the plain truth about "Seeds That Grow." The front cover illustrates in nine colors the greatest novelty in Sweet Peas — the already famous "Fiery Cross." The back cover shows the two famous Burpee Bantams, Golden Bantam Corn and Blue Bantam Peas. The colored plates show, painted from nature at Fordhook Farms, six other Burpee Specialties in Vegetables, and the finest new Burpee Spencers as grown at Floradale, the California home of Sweet Peas, and the unique new Gladioli, Fordhook Hybrids.

This catalog is mailed free. A post card will bring it.

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